

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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MARCH 1, 1950



Syringa Henryi Lutea

SEEDS TREE—SHRUB—PERENNIAL **HERBST BROTHERS**
FLOWER—VEGETABLE—GRASS 92 Warren St., New York 7, N. Y.

Correspondence with seed collectors and growers invited.

Free catalog "Seeds for Nurserymen."

ORNAMENTAL SHRUBS

Our shrubs are well grown, bushy stock, with plenty of canes and grown in wide rows to insure specimen plants suitable for your critical retail and landscape trade. Consult our Spring Wholesale Trade List in which we offer a large assortment.

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	Per 100		Per 100		Per 100		Per 100
Acanthopanax Sieboldianus		Cornus Alba Siberica		Lilac, Common White		Symphoricarpos Alba	
12 to 18 ins.	\$18.00	2 to 3 ft.	\$30.00	18 to 24 ins.	\$40.00	18 to 24 ins.	\$16.00
18 to 24 ins.	22.00	3 to 4 ft.	40.00	2 to 3 ft.	50.00	2 to 3 ft.	22.00
2 to 3 ft.	30.00	4 to 5 ft.	55.00	3 to 4 ft.	60.00	3 to 3 1/2 ft.	30.00
3 to 4 ft.	40.00						
Almond, Pink-flowering		Cornus Goldentwig		Lilac (Chinese),		Symphoricarpos Chenaultii	
12 to 18 ins.	20.00	18 to 24 ins.	25.00	Rothomagensis		18 to 24 ins.	20.00
2 to 3 ft.	40.00	2 to 3 ft.	30.00	3 to 4 ft.	45.00	2 to 3 ft.	27.00
3 to 4 ft.	50.00	3 to 4 ft.	40.00	4 to 5 ft.	55.00	3 to 4 ft.	35.00
Althea Anemoneaeflorus, Ardens,		Cornus Racemosa		Lilac, Josikaea		Symphoricarpos Vulgaris	
Boule de Feu, Double Purple,		2 to 3 ft.	40.00	18 to 24 ins.	35.00	18 to 24 ins.	16.00
Jeanne d'Arc, Lucy, Rubis		3 to 4 ft.	50.00	2 to 3 ft.	45.00	2 to 3 ft.	25.00
12 to 18 ins.	10.00	Deutzia Pride of Rochester		Philadelphus Coronarius		3 to 4 ft.	30.00
18 to 24 ins.	15.00	2 to 3 ft.	25.00	18 to 24 ins.	20.00		
2 to 3 ft.	20.00	3 to 4 ft.	35.00	2 to 3 ft.	25.00	Tamarix Amurensis, Hispidia,	
3 to 4 ft.	25.00	Elaeagnus Angustifolia		3 to 4 ft.	32.00	Odessana, Africana, Gallica	
Barberry, Thunbergi		3 to 4 ft.	45.00	4 to 5 ft.	45.00	18 to 24 ins.	20.00
9 to 12 ins.	9.00	4 to 5 ft.	55.00	Philadelphus Lemoinei		2 to 3 ft.	25.00
12 to 15 ins.	12.00	5 to 6 ft.	65.00	18 to 24 ins.	27.00	3 to 4 ft.	35.00
15 to 18 ins.	16.00	Euonymus Yedoensis		2 to 3 ft.	32.00	Viburnum Dentatum	
18 to 24 ins.	20.00	18 to 24 ins.	17.50	3 to 4 ft.	45.00	18 to 24 ins.	25.00
2 to 2 1/2 ft.	27.00	2 to 3 ft.	27.00	Philadelphus Virginialis		2 to 3 ft.	35.00
2 1/2 to 3 ft.	35.00	3 to 4 ft.	35.00	12 to 18 ins.	27.00	Viburnum Molle	
Barberry, Box		Forsythia Fortunei		2 to 3 ft.	35.00	18 to 24 ins.	22.00
9 to 12 ins.	18.00	18 to 24 ins.	18.00	3 to 4 ft.	45.00	2 to 3 ft.	30.00
12 to 15 ins.	25.00	2 to 3 ft.	25.00	4 to 5 ft.	60.00	3 to 4 ft.	45.00
15 to 18 ins.	30.00	3 to 4 ft.	35.00	Physocarpus Opulifolius		Viburnum Prunifolium	
Barberry, Red-leaved		Forsythia Intermedia		2 to 3 ft.	35.00	18 to 24 ins.	35.00
15 to 18 ins.	25.00	18 to 24 ins.	22.00	3 to 4 ft.	45.00	2 to 3 ft.	45.00
18 to 24 ins.	32.00	2 to 3 ft.	30.00	4 to 5 ft.	50.00	Vitex Macrophylla	
2 to 2 1/2 ft.	45.00	3 to 4 ft.	40.00	Potentilla Fruticosa		18 to 24 ins.	28.00
Barberry, Trueshedge		Forsythia Intermedia Spectabilis		12 to 18 ins.	22.00	2 to 3 ft.	35.00
15 to 18 ins.	30.00	18 to 24 ins.	22.00	Ribes Odoratum		Weigela Eva Rathke	
18 to 24 ins.	37.00	2 to 3 ft.	30.00	18 to 24 ins.	25.00	12 to 18 ins.	25.00
2 to 2 1/2 ft.	45.00	3 to 4 ft.	40.00	2 to 3 ft.	30.00	2 to 3 ft.	50.00
Buckthorn, Cathartica		Forsythia Spring Glory		3 to 4 ft.	45.00	Weigela Hendersoni	
12 to 18 ins.	10.00	18 to 24 ins.	30.00	4 to 5 ft.	55.00	18 to 24 ins.	25.00
18 to 24 ins.	15.00	2 to 3 ft.	40.00	5 to 6 ft.	80.00	2 to 3 ft.	35.00
2 to 3 ft.	20.00	Honeysuckle, Bella Albida		Salix (Pussy Willow)		4 to 5 ft.	40.00
Buddleia Charming		2 to 3 ft.	30.00	2 to 3 ft.	27.00	4 to 5 ft.	60.00
Medium	20.00	3 to 4 ft.	40.00	3 to 4 ft.	40.00	Weigela Rosea	
No. 1	25.00	4 to 5 ft.	50.00	4 to 5 ft.	55.00	18 to 24 ins.	22.00
Buddleia Dubonnet		Honeysuckle, Grandiflora Rosea		5 to 6 ft.	80.00	2 to 3 ft.	30.00
Medium	18.00	2 to 3 ft.	30.00	Shepherdia Argentea		3 to 4 ft.	40.00
No. 1	22.00	3 to 4 ft.	40.00	18 to 24 ins.	30.00	4 to 5 ft.	60.00
Buddleia Fortune		Honeysuckle, Pink Tatarian		2 to 3 ft.	40.00	Weigela Rosea	
(Pat. No. 206)		18 to 24 ins.	22.00	3 to 4 ft.	45.00	18 to 24 ins.	22.00
No. 1	30.00	2 to 3 ft.	30.00	4 to 5 ft.	50.00	2 to 3 ft.	30.00
Buddleia Ile de France		Honeysuckle, Red Tatarian		Spiraea Anthony Waterer		3 to 4 ft.	40.00
Medium	18.00	18 to 24 ins.	22.00	15 to 18 ins.	30.00	4 to 5 ft.	60.00
No. 1	22.00	2 to 3 ft.	30.00	18 to 24 ins.	35.00	California	
Buddleia Orchid Beauty		Honeysuckle, Virginialis Alba		Spiraea Billiardi		12 to 18 ins.	
Medium	22.00	3 to 4 ft.	45.00	18 to 24 ins.	18.00	3 canes and up.	60.00
No. 1	28.00	Hydrangea Arborescens		2 to 3 ft.	25.00	2 to 3 ft., 2 and 3 canes.	90.00
Buddleia Burgundy		Grandiflora		3 to 4 ft.	35.00	2 to 3 ft., 4 canes and up.	120.00
No. 1	35.00	12 to 18 ins.	22.00	Spiraea Bumalda Superba		3 to 4 ft., 4 canes.	140.00
Buddleia Empire Blue		18 to 24 ins.	32.00	12 to 18 ins.	18.00	3 to 4 ft., 5 canes and up.	160.00
(Pat. No. 557)		2 to 3 ft.	50.00	18 to 24 ins.	22.00	Ibolum	
No. 1	35.00	Hydrangea Paniculata		2 to 3 ft.	30.00	2 to 3 ft., 4 canes and up.	120.00
Buddleia Pink Dawn		Grandiflora		3 to 4 ft.	40.00	3 to 4 ft., 5 canes and up.	160.00
(Pat. No. 556)		12 to 18 ins.	22.00	Spiraea Japonica Ovalifolia		Ibota Vicari	
No. 1	35.00	18 to 24 ins.	32.00	12 to 15 ins.	35.00	12 to 15 ins.	200.00
Buddleia Royal Red		2 to 3 ft.	50.00	15 to 18 ins.	40.00	15 to 18 ins.	270.00
No. 1	35.00	Ilex Verticillata		18 to 24 ins.	50.00	18 to 24 ins.	350.00
Buddleia Snowbank		12 to 18 ins.	25.00	Spiraea Froebell		2 to 2 1/2 ft.	500.00
No. 1	35.00	18 to 24 ins.	35.00	18 to 24 ins.	22.00	Vulgare	
Buddleia White Bouquet		2 to 3 ft.	45.00	2 to 2 1/2 ft.	27.00	12 to 18 ins.	
(Pat. No. 536)		Kolkwitzia Amabilis		3 to 4 ft.	40.00	3 canes and up.	75.00
No. 1	40.00	18 to 24 ins.	40.00	Spiraea Vanhouttei		18 to 24 ins.	
		2 to 3 ft.	50.00	18 to 24 ins.	14.00	3 canes and up.	90.00
		Lilac, French, Chas. X.,		2 to 3 ft.	20.00	2 to 3 ft., 4 canes and up.	120.00
		President Grevy		3 to 4 ft.	25.00	3 to 4 ft., 4 canes and up.	140.00
		2 to 3 ft.	65.00	Staphylea Trifolia		3 to 4 ft., 5 canes and up.	175.00
				18 to 24 ins.	30.00		
				2 to 3 ft.	40.00		
				3 to 4 ft.	50.00		



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AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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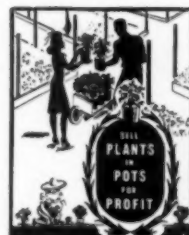


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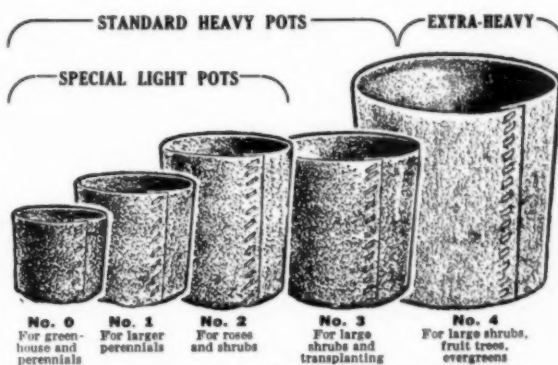
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TYPE	Height	Top Diam.	Nearest Clay Pot	Approx. Weight	PRICE		
SPECIAL LIGHT	(Packed 200 in carton)			Per 200	Per 200	Per 1000	
No. 0	5½ ins.	5 ins.	6 ins.	25 lbs.	\$5.00	\$22.50	
No. 1	6½ ins.	6 ins.	7 ins.	37 lbs.	7.00	32.50	
No. 2	9½ ins.	7 ins.	8 ins.	50 lbs.	8.00	37.50	
STANDARD HEAVY	(Packed 100 in carton)			Per 100	Per 100	Per 1000	
No. 0	5½ ins.	5 ins.	6 ins.	35 lbs.	\$3.00	\$27.50	
No. 1	6½ ins.	6 ins.	7 ins.	52 lbs.	4.25	40.00	
No. 2	9½ ins.	7 ins.	8 ins.	78 lbs.	4.75	45.00	
No. 3	9 ins.	8 ins.	9 ins.	88 lbs.	5.25	50.00	
EXTRA-HEAVY	(Packed 25 in carton)			Per 100	Per 25	Per 50	Per 75
No. 4	13 ins.	12 ins.		200 lbs.	\$6.25	\$12.50	\$18.75
					Per 100	Per 1000	
					\$22.50	\$200.00	

*Patent Number
2073695



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AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*

Joan L. Kilner, *Assistant Editor*

Editorial

SPRING OUTLOOK.

Business reports emphasize the heavy buying at the seasonal merchandise shows in January, particularly in furniture and household goods. This demand is interpreted as illustrating several influences. One is greater confidence in the spring outlook than was felt last year. Another is the improved market positions of many industries as a result of the curtailment of output and reduction of inventories in 1949. Still another is the continued healthy consumer buying power.

Highly important is the influence of phenomenal construction activity. Estimates of the United States Department of Commerce placed the number of new dwelling units started in 1949 at an all-time high of 1,019,000. These houses have to be furnished and equipped, with all that that implies. It includes nursery stock in quantities.

PARCEL-POST CHANGES.

Confusion was added to the changes in parcel-post weight and size limits when the House of Representatives last month voted to pass H. R. 2945 with an amendment offered by Congressman Murray, of Tennessee, chairman of the post-office committee. The amendment would allow the present limits of 100 inches in girth and length combined and of seventy pounds in weight to stand on all shipments to and from third-class and fourth-class post offices as well as for rural or star routes.

On shipments to addresses served by second-class and larger post offices, both the size and weight limits are reduced. The size limit would be cut to seventy-two inches. The weight limit would be cut to forty pounds in the first and second postal zones and still further cut to twenty pounds in the third to eighth zones.

The postal rate bill has not been acted upon yet in the Senate, where some answer to the problem imposed by this amendment must be found.

Under the House bill, with the amendment, no parcel-post shipper can compute the amount of postage on an order without knowing the class of post office at the destination.

The Mirror of the Trade

This information does not appear in present postal guides, so that the furnishing of that data to the shipping public will throw an additional burden on the postal service. The confusion caused to the retail customers who buy by mail can only be imagined.

In the struggle between the railway express interests, seeking to regain their lost package business, and the farm organizations, representing rural mail-order customers, mail-order nurserymen may be hurt. Great quantities of plants are annually moved through mail-order catalogs, and this large volume of business is important to the entire industry. Many mail-order buyers are far from any nursery, and if their business is lost to the mail-order nurserymen it is lost completely. Hence, nurserymen should let their senators know of their opposition to the changes in postal weight and size limits.

ADVERTISING AT HOME.

Every enterprise with public contacts has opportunities for advertising on its own premises. Sometimes these are reduced to monetary terms by sale or lease; the sides of trucks frequently carry advertising for others, and your bill in a New York Central diner carries an advertisement of Chevrolet.

Opportunities for nurserymen to advertise their merchandise at home are not realized fully. Billboard companies are using shrubs and evergreens to make attractive their signs on some highways. Factories employ landscape contractors to give their buildings distinction in otherwise drab surroundings. Plantings will enhance the markings on the Blue Star memorial highway stretching across the continent.

Only a few nurseries, however, add emphasis to the signs they erect to draw the public to their premises. Many a nursery office is as barren of growing things as the thousands of homes about which we hear complaint. And the storage houses stand as stark as barns on adjoining farms, without any semblance of the screen of trees or shrubs advocated for the farm homestead.

The trend distinctly is toward improvement of this nature, and nursery buildings, signs and sales grounds constructed since the war show recognition of the value of advertising at home. There is no reason why prewar

structures cannot be improved in the same manner.

The homeowner motoring along the highways in his locality cannot fail to compare the appearance of the nurseries he passes. He is attracted to the nursery whose premises indicate care and attention. A well designed planting about the nursery office is one of the first indications to a visitor that the nurseryman can do a good job on his home grounds. Certainly an unkempt roadway, an unpainted sign and barren buildings do not attract the buyers who spend most freely. They will repose their confidence in the nurseryman who shows his appreciation of growing things and his skill in their arrangement.

WATERING LAWN TREES.

One of the nurseryman's vexations is the varying interpretations put on his instructions to homeowners about watering newly planted lawn trees. At one place they make little or no growth because of lack of water, while at another the tree may be drowned by too much watering.

To meet this problem, some nurserymen bury in the ground at the time of tree planting a large-size fruit juice can, the top and bottom of which have been removed. The top of the can is set flush with the ground. Then if the can is set close to the tree roots, when the can is filled with water it will seep down among the roots, where it is needed, rather than wet the upper surface of the ground.

Where there is danger of accidents, a netting or metal guard can be set over the top of the can. Presumably it could be filled with crushed stone of very coarse grade.

Then the homeowner is merely told to keep the can filled with water.

CAMELIAS from the gardens of Tom Dodd, who operates the Tom Dodd Nurseries, Semmes, Ala., and is a member of the horticulture and nurseries committee of the Mobile chamber of commerce, were flown to Washington last month as a sample of Alabama's floral beauties. Fifty of the camellias were presented to Mrs. Harry S. Truman, 150 to contributors to the March of Dimes campaign and fifty to the American Association of Nurserymen for distribution.

Combine Conventions at Boston

MASSACHUSETTS MEETING.

Membership was the absorbing problem before the forty-first annual meeting of the Massachusetts Nurserymen's Association, at the Hotel Kenmore, Boston, February 7. The opening address of President Luke C. May referred to its static condition. Marinus Vander Pol reported on a study of the matter made by the membership committee, since the current roster showed only thirty-seven active and six associate members, although Massachusetts has 285 inspected nurseries, of which 100 should be general nurseries of such size as to warrant membership. He referred to the rapid rise of the Connecticut association's membership in recent years and urged a program that would stimulate increase in the Massachusetts roster. Finally it was voted to appoint a special committee to study the subject and report at the next meeting.

Officers elected were: President, Homer K. Dodge, Landscape Service Co., Framingham, and vice-president, Harold Stevenson, of the Bay State Nurseries, North Abington, who was absent at the funeral of his father in Maine. Re-elected were the treasurer, Charles A. Godin, Adams Nursery, Inc., Westfield, and secretary, Dr. C. J. Gilgut, Waltham field station.

On the executive committee were named Harold Atwater, Atwater Nurseries, Agawam; Heinrich Rohrbach, Heatherfells Nursery, Andover, and Luke C. May, Lexington Nurseries, Lexington.

The membership committee—Charles A. Godin, Clifford Corliss, Jr., and Marinus Vander Pol—was re-elected for its good work. The legislative committee was changed only by the new president's replacing his predecessor; the other members are Donald Wyman, Seth L. Kelsey, Edmund Mezitt and C. J. Gilgut.

President May commented on the excellent business currently enjoyed by nurserymen, with shortages of many items of stock and firm prices generally. His recommendation of an increase of \$25 in the honorarium of the secretary was approved by the committee reviewing his address, of which Marinus Vander Pol was chairman, and voted unanimously with praise for Dr. Gilgut's work.

The treasurer's report showed a balance of \$935.49, reflecting a decided improvement in finances over three years ago.

Seth L. Kelsey reported that Blue Star Highway, Inc., with the cooperation of the state department of public works, had planted markers on U. S. 1 and planned to plant the sixty-eight miles of the highway in Massachusetts. He urged nurserymen to contribute stock for the purpose, which would be in addition to that purchased by funds raised for the purpose.

Before the meeting was ended, Mr. Kelsey had a respectable list of generous donations and promises of more, assuring the planting of the memorial highway through the state in a manner of which the nurserymen could be proud.

At the noon luncheon between the two sessions, R. P. White, executive



Homer K. Dodge.

secretary of the American Association of Nurserymen, addressed a full room on "Where Are We Going?" The national direction toward unsound finances because of deficit spending and an unbalanced budget, Dr. White deplored. Despite that trend, business was generally good, he reported, and nurserymen seemed bound for several years of prosperity because of housing construction, stock shortages and good prices. They faced problems in transportation costs, competition from other industries and higher taxes affecting consumers' income. The strength of the national association, he concluded, offered a helpful means of keeping the industry on the right road.

Individual nurserymen could assist by becoming members and actively participating in the activities of the national association.

NEW ENGLAND SESSIONS.

The thirty-ninth annual meeting of the New England Nurserymen's Association, at the Hotel Kenmore, Boston, February 7 to 9, was marked by the retirement from the principal offices of two influential leaders, under whom notable progress had been made. Arthur Webster's two years as president had nearly won his goal of 100 members; the addition of twelve at this meeting pushed the total up to ninety-five. The decade of service by Louis Vanderbrook had seen a still more notable improvement in membership and finances since he began two years' service as president in 1941 and followed it with seven years as secretary. His retirement from the latter office was in the face of the arguments and persuasions of his executive committee associates, who knew the work, time and money he had put into the job he had done for the association. When his determination was known, the members of the association contributed to present Mr. Vanderbrook a handsome engraved desk pen and inkstand set and Mrs. Vanderbrook a pen and pencil set. The speech of presentation by Arthur Webster testified to the members' feelings.

Officers Elected.

New officers elected were: President, Richard M. Wyman, Jr., Framingham, Mass.; vice-president, Luke C. May, Lexington Nurseries, Lexington, Mass., and secretary, Chester E. Hogan, C. R. Burr & Co., Manchester, Conn. Peter J. Cascio, West Hartford, Conn., was re-elected treasurer.

J. C. Brownell, Rhode Island Nurseries, Newport, R. I., and Louis Vanderbrook were elected to the executive committee, along with Willard Bond, Bay State Nurseries, North Abington, Mass., re-elected.

As A. A. N. delegates for two years the following were chosen: Arthur Lewis, Cedarhurst Nurseries, East Providence, R. I.; Erwin Whitham, Manchester, Conn., and Chester E. Hogan.

As alternates for 2-year terms were named Robert Bennerup, Sunny Border, Inc., Kensington, Conn.; Alfred Angel, Boulevard Nurseries, Newport, R. I., and Willard Bond, and alternates for 1-year terms, Harold Atwater, Atwater Nurseries, Agawam, Mass., and E. John Brou-

er, Brouwer's Nurseries, New London, Conn.

Holdover delegates are Richard Wyman, Jr., Framingham, Mass., and Walton Wyman.

The opening business session of the New England association immediately followed the close of the Massachusetts association meeting, Tuesday afternoon, February 7. Wednesday was given over to the day-long educational program. The concluding business session was held Thursday morning, with final ceremonies after the luncheon.

Official Reports.

At the opening session, President Arthur E. Webster delivered a brief message, in which he reported business fine and urged nurserymen to keep it so with fair prices and reasonable production. He stressed the wide need of home beautification, a part of the campaign to "Plant America."

Louis Vanderbrook eschewed formalities to sing his swan song in



CHESTER E. HOGAN

Last month elected secretary of the New England Nurserymen's Association, Chester E. Hogan has been associated with C. R. Burr & Co., Inc., Manchester, Conn., since June, 1946, where he is now the firm's treasurer.

Mr. Hogan, who was born October 28, 1915, at East Providence, R. I., received his B. A. degree in economics from Brown University in 1937. Most of his business experience since then has been concerned with finance, budget, systems and methods, production control and cost control, for he worked as an accounting supervisor with the General Electric Co., Schenectady, N. Y., for five years, and with the Pratt & Whitney Aircraft, East Hartford, Conn., from 1942 to 1943.

A lieutenant, j. g., in the United States Navy for thirty months, Mr. Hogan saw duty on a destroyer escort in the Mediterranean sea and Atlantic ocean and at Luzon, Iwo Jima and Okinawa. He is a member of the American Legion and the Knights of Columbus.

lieu of his secretary's report, emphasizing his firm decision to decline reelection after seven years' service, during which, incidentally, membership advanced from thirty-seven to ninety-five. His resignation was finally accepted with a rising vote of thanks and applause.

The treasurer's report, by Peter J. Cascio, showed expenditures of \$2,247.45 against receipts of \$2,328.83, with a resultant small increase in the balance on hand to \$4,853.61.

In the absence of Charles S. Burr, resting at home after a minor operation the week before, L. F. Palmeter reported for the transportation committee. He called attention to the proposed decreases in weight and size limits of parcel post packages and urged members to protest the changes through their farm organizations, which apprehend that 9,000,000 farmers on rural routes will receive reduced parcel service or none. His firm, Mr. Palmeter said, estimated such changes would increase its transportation costs forty per cent. The railroads seek to raise the minimum carload on balled and burlapped stock from 20,000 to 24,000 pounds and on bare-root stock from 16,000 to 24,000 pounds, though not more than 9,000 pounds can be loaded in a car of roses, for example. This move likewise deserved determined opposition, now being undertaken through the A. A. N.

Public Relations.

For the committee on public relations, Homer K. Dodge reported a radio transcription had been made last spring at a cost of \$18.92, with the participation of fourteen members, and broadcast on eighteen stations. He recommended continuance of this as a most effective method of publicity, since the stations gave the time free. Newspaper publicity copy might be left to the A. A. N., he said, while he urged individual members not to overlook opportunities in their localities. The New England committee would continue with radio transcriptions. The good work of this committee received a rising vote of thanks.

Peter J. Cascio, A. A. N. executive committeeman for region I, spoke briefly on the activities of the national body, specially mentioning the continuance of the gift certificate, an idea that originated at Boston. He said forty-eight members had been added by vote of the executive committee at its January meeting at Chicago. At that time, also, a committee of retail nurserymen was appointed to consider the formulation

of horticultural standards applicable to consumer sales.

Concluding Business.

Business was completed Thursday morning, February 9, with further reports of standing committees and the election of officers. The substantial gain in membership was shown by E. D. Robinson's report. Clifford Corliss responded for the auditing committee and Joel E. Barnes for the committee on the president's address, which was warmly commended.

Willard Bond was given a rising vote of thanks for his second year's

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ARTHUR WEBSTER.

After two years as president and one year as vice-president, Arthur Webster is retiring as an officer of the New England Nurserymen's Association. He has also served on the executive committee of the Connecticut Nurserymen's Association since his retirement as president of that organization in 1947.

Born at Colchester, Conn., Mr. Webster spent his younger days on a large farm and received his schooling from the rural schools of Colchester and the Bacon Academy there, later taking night school and correspondence courses.

He joined the United States Army Signal Corps in 1915, serving with the Mexican border troops and in World War I. He was discharged as a quartermaster sergeant in the summer of 1919.

Taking up the trade of toolmaker, Mr. Webster gave this up a year after finishing his apprenticeship, preferring outdoor work. Immediately before and following the time he spent in the armed service, Mr. Webster joined his father to work as an automobile accessory salesman. In 1920, still preferring outdoor work, he obtained a position with the large nurseries of A. N. Pierson, Inc., Cromwell, Conn. He is now assistant nursery superintendent.

Mr. Webster is a member of the Grange, has held offices in the American Legion and has been first selectman for the town of Cromwell for two years.

Married to the former Margaret McNeil, he is the father of two children and the grandfather of a 2-year-old boy.

New England Educational Day

Local talent furnished the entire program of educational day at the convention of the New England Nurserymen's Association, February 8. This was sandwiched between the two days of business sessions. Key employees brought along by many of the member firms, with students from state colleges, swelled the attendance that day to well over 200. The acknowledged success of the event this year was due in no little part to the efforts of the chairman and moderator, Willard Bond.

Waste in the Nursery.

In the absence of Charles S. Burr, who was at home recovering from an operation, Chester E. Hogan, the youthful treasurer of C. R. Burr & Co., Manchester, Conn., discussed the subject, "How to Avoid Waste in the Nursery." He deplored the disregard of property in the nursery, where tools were thrown in piles and burlap was dumped behind the barn. He explained that if a nursery makes ten per cent profit on its sales, the wastage of 50 cents in plants or materials is equivalent to the loss of \$5 in sales, while a waste of \$10 in labor or materials is equivalent to the loss of \$100 in sales.

Waste in the nursery is of four types, said Mr. Hogan, the first being in the improper use of supplies. This may be caused by carelessness, negligence or ignorance. Second is the waste of equipment, such as tractors, trucks and small tools. These represent an investment, for which the nurseryman apparently has little respect, to judge by the poor condition in which they are maintained.

Waste in tools can be prevented by proper maintenance. They should be kept clean and in their proper places. The tool shed should be marked with the location of the various tools, so that they can be hung or stacked properly. Trucks should be kept clean and painted. The tires should be rotated, as advocated by the manufacturers. An inventory should be maintained of all tools and equipment to check losses.

The third important waste is of stock. Some of it is dug at the wrong time, and some of it is not heeled in when it should be. While the nurseryman seeks to impress on his customers that a plant is a living thing and must be cared for, he often treats it as so much brush and throws it about as an inanimate object. Much waste of stock can be prevented by a

fair knowledge of one's inventory and more care in buying, said Mr. Hogan.

The fourth big waste is that of time, caused either by laziness or lack of planning. This he said was the fault of management, either on the part of supervisor or owner. Trucks should leave on time in the morning and should be accompanied by the proper complement of tools. Waste of time is a fault that permeates other operations in the nursery, causing waste of supplies, equipment and stock.

Correction is a never-ending job, requiring attention day after day. To combat waste requires a program planned and carried out by the owner or supervisor. Benefit will come in more than one way, because employees have more respect for the employer if equipment is kept in shape and if care is required in handling supplies.

In the discussion which followed



CHARLES A. GODIN.

Treasurer of the Massachusetts Nurserymen's Association since 1947, Charles A. Godin was awarded the alumni key for merit in horticulture last year from Stockbridge school of agriculture, University of Massachusetts.

After graduating with a major in horticulture from Stockbridge school in 1934, Mr. Godin worked for the United States Department of Agriculture, bureau of plant quarantine. The next year he joined the staff at Anderson's Nursery, West Springfield, Mass., and in 1937 became affiliated with Adams Nursery, Inc., Westfield, Mass., where he is in charge of the landscape department.

He served with the United States Army Corps of Engineers from 1942 to 1946, entering as a buck private and rising to the rank of a captain by the time of his discharge in 1946.

Mr. Godin and his wife, the former Eleanor Weschler, of Springfield, have a 9-year-old son, William.

this talk, Seth Kelsey said the biggest waste in the nursery was that of time when a crew of eight men were sent out to dig stock, a few of this item or that, and most of the time only two men were digging and the others waiting. Several suggestions were forthcoming, one to send smaller crews on trucks, another to dig larger quantities and assemble orders and still another to avoid digging for unscheduled buyers who come in trucks to fetch their purchases.

James Wells suggested that a map of the stock blocks in the nursery was a timesaver as an aid to memory. He said that waste in lumber could be prevented by the use of a preservative, which was applied to every piece used in the Koster Nursery, whether for flats, benches or repair.

Russell Harmon said that the waste of burlap had been halted at LaBars' Rhododendron Nursery, Stroudsburg, Pa., by considering it in terms of money. Each truck there has its own kit of tools. Tools for individual use were assigned to persons, and they were held responsible. Pruning shears were issued to the men, who were charged one-half the cost if the shears were lost.

Filling the Order.

"Is a job finished when the order is taken?" was the question answered by Charles Godin, of Adams Nurseries, Inc., Westfield, Mass., in a talk that outlined in detail the system followed by his firm.

When an order is received from a salesman, it is first checked with the inventory and then typed. Five copies are made, one for invoice, one for an office copy, one for the digging foreman, one as a delivery receipt or order to the landscape department and a fifth as an acknowledgment in the case of a wholesale order.

Then the landscape department schedules the digging date. The digging foreman had seventeen years' experience on the road and knows the kind of stock wanted. He has a crew digging only stock for landscape orders. He writes out the labels from the orders, schedules the digging by blocks and then assembles the individual orders in one area.

Then the order is returned to the landscape department to be scheduled for planting, and the order is marked when the stock is loaded on a truck.

The salesman, said Mr. Godin, should meet the planting foreman on

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Kansas Landscape Architects Meet

By John Long

Highlight of the winter meeting of the Association of Kansas Landscape Architects at Wareham hotel, Manhattan, February 12, was the presentation of the annual award to the student selected as most outstanding in landscape design at Kansas State College, Manhattan. The recipient was Don Roepke, Marysville, who graduated from Kansas State College in January and now heads the retail sales department of J. H. Skinner & Co., Topeka. Dr. William F. Pickett, head of the department of horticulture, made the presentation.

Lloyd Copenhafer, landscape architect with the Kansas highway department, Topeka, as chairman of the nominating committee, expressed the wish of the association to retain the present officers for another term and commended them for the fine work they are doing.

The officers who were then unanimously reelected, are: President, Homer Jameson, chief of buildings and grounds, Menninger Foundation, Topeka; vice-president, Miles George, secretary and superintendent of Maple Grove cemetery, Wichita, and secretary-treasurer, George Fisher, Kansas Landscape & Nursery Co., Salina.

Miles George submitted the names of ten applicants for membership, and all were admitted to the group.

Dr. George A. Filing, of the horticulture department, gave an interesting account of his trip through several European countries last summer, using color slides of points of interest. He made the same trip in

1923 as a representative of the Y.M.C.A. and so was able to compare conditions as he saw them then and at the present. While overseas he visited relatives in Czechoslovakia and gained firsthand knowledge of life under the Soviet regime.

L. R. Quinlan, professor of landscape design, Kansas State College, gave some of the modern views on "Landscaping the Ranch-type House," a style of architecture which is fast taking hold in all parts of the country. He stated that the type of house strongly influences the landscape problem. An example is the 2-story house of the 1890's, which highly dominates this part of the country, for which the primary use of plantings is to hide the ugly foundations. "Times have changed," he said, "in that the ranch-type home has no appreciable foundation that needs the camouflage planting."

Slides featuring the 2-story house also showed upright conifers and large, spreading deciduous trees which framed the home in its proper setting. Similar slides exhibited low, one-story houses with the same type of plantings, which were dwarfed and thrown out of proportion.

Professor Quinlan stressed the fact that today's nurserymen are selling upright evergreens for doorstep framing to such an extent that lower and more spreading evergreens are losing their prominence. "Upright evergreens," he emphasized, "are primarily accent plants and are not so

highly needed in present-day plantings for the ranch-type house."

Since more homes are now being built on 40 and 50-foot lots, there is a need for more simple plantings. Furthermore, the house of today is based on a more economical standard and is usually built only large enough to accommodate the needs of the family to occupy it; hence, the absence of oversize homes.

Three prominent features of the modern, ranch-type house are the public, service and private areas. Each should conform to its own setting, wherein the large cut-and-dried type of garden is fast disappearing with the growth of the unsymmetrical design. The trend is toward private terraces at the rear of the home and the attached garages. Bed plantings, due to crowded space, are becoming more popular. Horticultural monstrosities are likewise becoming less frequent. Simple front-yard layouts with small attractive fences and easily maintained flowers are gaining popularity. The plant characteristics of form, texture and color in relation to one another are now more important in small areas than they once were.

Professor Quinlan condemned the small modern-plan house which features large picture windows looking out upon unsightly crowded streets, but defended their use with highly decorative landscapes.

He emphasized dwarf junipers, polyanthus, sweet williams and tulips as desirable for front-yard plantings. He also recommended the use of double-flowering peach, flowering crab apple, Washington hawthorn, Russian olive, pussy willow, the dogwoods, wintercreepers and cotoneaster for lawn planting in this area.

Wives attending the dinner and program were invited to the home of Professor and Mrs. Quinlan while the members held a short business session.

President Jameson moved to amend the constitution, by adding an executive committee in order to grant greater consideration to the affairs of the group. The amendment was passed, adding the immediate past president and second past president to the present committee.

A suggestion was made to investigate the possibility of improving and expanding the course in landscape design at Kansas State College. Many

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Executive committee of the Association of Kansas Landscape Architects. Left to right: George Fisher, Miles George, Homer Jameson, Lloyd Copenhafer and Lawrence Kelly.

Midwest Tree Conference at Chicago

By Noel Wysong

The fifth annual meeting of the Midwestern chapter of the National Shade Tree Conference was held February 15 to 17 at the Hotel La Salle, Chicago. Despite the severe sleet storm February 13 and 14 that caused tremendous damage to thousands of trees in the midwest and made road conditions hazardous, 323 members and guests from fourteen states registered for the 2½-day conference. Registration by states was as follows: Illinois, 212; Wisconsin, thirty-two; Iowa, seventeen; Missouri, thirteen; Ohio, ten; Indiana, ten; Colorado, eight; Michigan, eight; Nebraska, five; Kansas, three; New York, two, and one each from Minnesota, Pennsylvania and Kentucky.

Annual Election.

Officers for the coming year were elected at the business session as follows: President, Richard K. Alman, city arborist, Cedar Rapids, Ia.; vice-president, Alfred F. Carlstrom, Chicago park district; secretary-treasurer, Noel B. Wysong, forest preserve district, River Forest, Ill. Elected for a 2-year term to the board of governors of both the chapter and the National Shade Tree Conference were George B. Caskey, park superintendent, Winnetka, Ill.; Frank J. Pipal, city forester, Omaha, Neb., and Gordon B. Wallace, superintendent of parks, Wilmette, Ill. Elected as alternates to the board of governors for a one-year term were Marvin Stevens, Glenview, Ill.; Clancy I. Baker, Chicago park district; Howard G. Mueller, Wauwatosa, Wis.; J. C. Carter, Illinois Natural History Survey, Urbana; Rudolph C. Lohmann, West Allis, Wis.; George W. Kelly, Colorado Forestry and Horticulture Association, Denver, and Harold W. Glissmann, superintendent of grounds, Father Flanagan's boys' home, Boys' Town, Neb.

Heretofore, there have been no commercial exhibits at Midwestern chapter meetings. This year, however, literature, supplies, hand tools and small power equipment were displayed by the following companies: Paul E. Burdett, Lombard, Ill.; Roseman Tractor Equipment Co., Evanston, Ill.; Power Equipment Co., Chicago; George A. Davis, Inc., Chicago; Mall Tool Co., Chicago; Chicago Fence & Equipment Co.; Armour Fertilizer Works, Chicago Heights; Permalawn Products Co., Evanston,

Ill.; F. E. Kilbourn, East Chicago, Ind., and the Lawrence division of the Elgin Corp., Aero-mist Sprayer, New York and Elgin, Ill. Included in the educational exhibit were pictures of the Augustine ascending elm by William A. Beaudry & Associates; budding charts furnished by the Chicago park district, and leaf and twig mounts supplied by the Cook county forest preserve district.

Opening the first session, Wednesday afternoon, February 15, President Noel Wysong extended greet-



RICHARD K. ALMAN.

Richard K. Alman, city arborist at Cedar Rapids, Ia., has been elected president of the Midwestern chapter of the National Shade Tree Conference after serving a term as vice-president.

A native of Hudson, O., Mr. Alman attended Kent State University and received his B.S. degree in municipal forestry from Michigan State College in 1941. While attending college, he operated as a commercial arborist.

Mr. Alman worked as a foreman in the forestry department, Lansing, Mich., for five months after his graduation until he moved to Cedar Rapids in June, 1941. And except for two years spent in the armed forces, he has been there since as city arborist.

Cedar Rapids, which has a commission form of government, was the second city in the state to undertake any modern approach to shade tree problems. It was Mr. Alman's duty as new city arborist to write a shade tree ordinance, set up an office and records, purchase tools and equipment, hire and train local men for tree work and supervise all tree work involving trees on city property.

The arboriculture division of the parks and public property department of Cedar Rapids is now operating on a yearly budget of \$30,000 and is entrusted with the care of 25,000 street trees and 500 acres of park trees.

ings to members and guests. He pointed out that such programs as "Plant America," "Keep America Green" and "National Arbor Day" are arousing general interest in trees and that, with this changing public attitude, the need for competent arborists is increasing. An important function of shade tree conferences, he said, is to provide opportunity for arborists to exchange information which will result in general improvement of arboricultural practices.

"Relationship of Insurance to the Arborist" was discussed by R. T. Halbert, of the Liberty Mutual Insurance Co., Chicago. Listing workmen's compensation insurance rates for a number of industries, Mr. Halbert pointed out that, while the rates for arborists are high, those for certain other occupations are still higher. Insurance rates are based on actual payments made to policyholders classified according to occupation, and the best way to reduce present rates is to reduce the number of accidents that occur. This may be accomplished in arboriculture or any other occupation, said Mr. Halbert, through careful job planning, determination of hazards and means of avoiding them, establishment and enforcement of safety rules and selling the foremen and workmen on these safety rules. T. E. Kelch, also of the Liberty Mutual Insurance Co., during the question and answer period, said that an insurance company could help develop safety practices, but that the actual work of preventing accidents must be done in the field.

New Herbicides.

L. L. Coulter, Dow Chemical Co., South Haven, Mich., speaking on "New Herbicides and Their Use," discussed methods of application and results that might be expected from the use of 2,4,5-T, sodium TCA and methyl bromide. Trichlorophenoxyacetic acid, or 2,4,5-T, was developed to control such species as blackberry, Osage orange, oak and poison ivy, which are resistant to the effects of the better known herbicide, 2,4-D.

The use of esters of 2,4,5-T in combination with esters of 2,4-D give control of a wide variety of plant species. This mixture may be applied at 200 to 300 pounds' pressure in low concentrations of two and one-half to three pounds of acid equivalent

per hundred gallons of water, using 150 to 250 gallons of the spray per acre, depending upon the type of vegetation. In areas which cannot be reached with power equipment, knapsack applications are equally effective, provided that the same amount of 2,4,5-T and 2,4-D is applied per acre. Generally volume per acre in this treatment is from thirty to forty gallons. Coverage of the leaves and stems is important. The herbicide 2,4,5-T is well adapted for control of brush during the dormant period, and for control of sprout growth from stumps.

Sodium TCA is not a permanent soil sterilizer and will not control broad-leaved weeds, said Mr. Coulter, but is effective against most grass species. It should be applied when the soil is moderately moist. The amount required per acre varies with conditions; as little as ten to fifteen pounds per acre may be effective if applied at the time the seed stalks of grasses are beginning to appear. For the control of grass in parking spaces, pole yards and similar areas, eighty to 100 pounds of TCA per acre may be necessary.

Of particular interest to nurserymen and others who grow plants that have a high value and require hand weeding, is methyl bromide, or Dowfume MC-2. This chemical is a gas at room temperature and normal atmospheric pressure and, because of its highly penetrating nature and lethal effect on weed seeds and nematodes, is becoming popular in the preparation of seedbeds. One pound of methyl bromide is sufficient to treat 100 square feet of soil. It will penetrate the soil effectively to a depth of a foot or more, recent experiments on piled soil indicating that it may penetrate to a depth of three feet. It must be applied under a gas-proof cover, which should remain in place at least twenty-four hours. For effective results the soil should be above 50 degrees Fahrenheit. The seedbed may be planted forty-eight hours after treatment. Late summer or fall applications were recommended for treating nursery seedbeds in the Chicago area. Seedbeds so treated will be free of weeds the following spring, unless weed seeds are carried in by floods, winds or other agencies. Mr. Coulter warned that methyl bromide is a poisonous gas and that extreme care should be used to avoid inhaling the vapors during application.

Talks on Trees.

With "Midwestern Tree Ecology" as her subject, May Theilgaard Watts, of the Morton Arboretum,

Lisle, Ill., traced the natural, progressive development of plants from water-loving species to the climax forest types. Using slides to illustrate her remarks, Mrs. Watts told of the many factors, both natural and man-caused, that influence plant succession. She pointed out that all plants have decided site preferences and that the plantsman who would succeed must learn to recognize these preferences.

Dr. Paul E. Tilford, executive secretary of the National Arborist Association, Wooster, O., in discussing "Field Diagnosis of Tree Troubles," described the procedure that should be followed to determine the source of trouble of an ailing tree. The cause of injury by such agencies as lightning or leaf-eating insects is obvious, he stated, but when the cause of the trouble is not at once apparent, the tree must be examined carefully and all symptoms studied before diagnosis can be made. Laboratory examination often is necessary to identify tree diseases.

If diseased leaves are collected for this purpose, they should be placed in glassine bags to prevent excessive drying, Dr. Tilford advised. In collecting branch specimens for identification of disease, sections six to eight inches in length that show both diseased and healthy wood and bark should be selected. Insects that are collected for later identification should be placed in a small vial. The base of the trunk below the soil surface should be examined for girdling roots.

Fills over the root area, a lowering of the grade, a sudden change in soil water level, toxic materials in the soil and toxic gases in the atmosphere are common causes of tree damage. Excesses or deficiencies of mineral nutrients in the soil can be determined by soil analysis. "It is often advisable," said Dr. Tilford, "to compare the ailing tree with a healthy one of the same kind near by as to leaf size and color, amount of annual growth, color of cambium, color of wood and color and condition of roots."

Organic vs. Inorganic Fertilizer.

"Organic vs. Inorganic Fertilizer in Tree Feeding" was ably discussed by Paul Pfund, Elmhurst, Ill.; R. Milton Carleton, Vaughan's Seed Co., Chicago, and L. C. Chadwick, Ohio State University, Columbus.

Mr. Pfund advocated the use of compost derived from all suitable organic materials as a means of restoring and increasing soil fertility. In support of his contention that such

compost is superior to chemicals for this purpose, he said there is evidence that soils treated with chemical fertilizers lose their capacity for retaining moisture and their normal supply of beneficial bacteria decreases. In plants grown on soil treated with compost, carbohydrates and proteins are produced in proper ratio, whereas in artificially grown plants the carbohydrates appear in undue measure, and such plants are the ones most attacked by insects. Declaring that in transplanting trees an ideal opportunity is afforded for the liberal use of compost, Mr. Pfund added, "Monuments in the form of thrifty trees will be the reward and proof of the wisdom of those who take part in such truly constructive measures."

Dr. Carleton vigorously defended the use of chemical fertilizers and quoted several prominent plantsmen in support of his argument. Stating that with chemical fertilizers healthy plants could be grown which human beings could eat with safety and satisfaction, he said there was no sound basis for believing otherwise. Concerning the use of compost in feeding trees, he stated that the protein in such organic matter breaks down slowly, about two per cent a year becoming available for use by the tree. This, he said, will help the tree in its growth processes, but there is not enough of it to produce maximum growth or the greatest amount of foliage that could be obtained or strong straight trunks and healthy wood that is not subject to insect attack. He added that such growth could be obtained only with chemicals to supplement organic matter.

Dr. Carleton suggested that nitrate nitrogen from chemical sources applied early in the spring, and an additional application in late July if there was a plentiful supply of soil moisture, would stimulate hard, healthy growth that matured properly by fall.

Dr. Chadwick spoke rather briefly, pointing out that both chemical and organic fertilizers had certain advantages and disadvantages. Both could cause injury to trees and other plants if used carelessly or improperly, he said, and both would stimulate plant growth if used in the right manner.

Community Interest.

George W. Kelly, of the Colorado Forestry and Horticulture Association, Denver, in his presentation of "Methods of Developing Community Interest in Trees," told of the educational program that is being conducted at Denver to promote greater appreciation and better care of trees.

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Tennessee Short Course Meeting

By F. C. Galle

The forty-fifth annual meeting of the Tennessee State Nurserymen's Association combined with the third annual short course sponsored by the University of Tennessee was held February 2 and 3 at Knoxville. Over fifty persons registered the evening before at the Andrew Johnson hotel, where a "Hi-Jinx" jamboree was held to help the nurserymen become better acquainted.

The association elected H. R. Potter, H. R. Potter Nursery, Joelton, as the new president. C. E. Braswell, Braswell Nurseries, Smithville, is the new vice-president, and J. E. Varnell, Easterly Nursery Co., Cleveland, was reelected secretary-treasurer. Members of the executive committee are John T. Boyd, Forest Nursery Co., Inc., McMinnville; Hubert Nicholson, Southern Nursery & Landscape Co., Winchester, and David Cartwright, Cartwright Nursery, Collierville.

The retiring president, Joseph N. Howell, Knoxville landscape engineer, called the short course meeting to order the first morning, followed by the invocation by Maj. Arthur Jameson, commanding officer, Volunteers of America. R. C. Smith, representing Mayor Elmore, gave a message of welcome to the nurserymen, while the response was given by Richard H. Jones, Jones Ornamental Nursery, Nashville. Robert Boyd, Boyd Nursery Co., presented a gavel to the president for future use by the association. George Morehead, Nashville, made the gavel from native wood found in Tennessee.

In his address President Howell stressed the value of reading trade publications to keep posted on the latest methods and plant introductions. He discussed maintenance of customers' plantings, emphasizing that nurserymen ask adequate compensation for the service. They should "raise their standards" in estimating planting jobs, he said, thereby making a greater bid for the consumer dollar and gaining increased revenue for the entire industry.

Fruit Nomenclature.

The first speaker was John T. Bregger, president of the American Pomological Society, Clemson, S. C., who talked on "Fruit Variety Nomenclature." Starting off with the question, "What's in a name?", Mr. Bregger explained the reason for fruit names. It is a method of definitely

referring to a plant entity, which includes variety, clone or strain, so that everyone can identify it or know what it is. Such a name, or names, should be the original name if possible, should be correctly spelled and should always be used for the same variety.

Mr. Bregger then described the method of naming new fruits, saying that these were usually labeled by the originator or the person that first introduced a fruit. It should be a suitable name and one that has never been used before. The speaker



H. R. POTTER.

H. R. Potter, who represents the third generation of nurserymen in his family and is the owner of the H. R. Potter Nursery, Joelton, Tenn., was elected president of the Tennessee State Nurserymen's Association at the forty-fifth annual meeting February 2 and 3 at Knoxville. His father and grandfather were engaged in the nursery business.

He was born in De Kalb county, Tennessee, May 13, 1912. Educated in the public schools of De Kalb and Warren counties, he graduated from Dibrell high school in 1931 and went to work for the E. I. du Pont Co., Old Hickory. He was meanwhile enrolled at the Watkins Institute night school at Nashville.

Leaving the E. I. du Pont Co. in 1937, Mr. Potter became associated with the B. L. Potter Nurseries, Huntington, W. Va. In 1938 he returned to his home state to do landscape work independently as a dealer, establishing his present business in 1940 on a 3-acre leased plot. In 1944 he purchased forty-seven acres of land twelve miles northwest of Nashville and moved the nursery there. He does wholesale and retail business, serving northern Tennessee and central and southern Kentucky, and grows a general line of stock, with emphasis on landscape material.

Mr. Potter married the former Sallie Christian in 1933, and they have two children, Billy, 15, and Linda, 12.

warned that the name should be cleared through the chairman of registration of the American Pomological Society, at the United States Department of Agriculture library, Beltsville, Md.

Mr. Bregger gave other rules to follow in naming a fruit as listed by the American Pomological Society code of nomenclature, which says a single word is preferable and not more than two words should be used if possible; the name must not be possessive; it must be descriptive of the fruit or related to its place of origin; the variety should not be named after a person who is still alive, and if it is a mutation, it should keep the name of the parent variety within its own name.

Other rules of the society state that the first publication of a fruit variety name establishes introduction, and since synonyms are established by common usage they should be properly identified to remove doubt of the identity. A list of peach variety synonyms was published in the American Nurseryman for November 15, 1949.

The speaker stressed the importance of honesty and extreme care in keeping varieties straight. A name of a variety should not be changed nor should the variety sold under a popular name be changed.

As contrasted with many ornamental plants, fruit trees cannot be accurately identified at the time of sale. However, Mr. Bregger concluded, care and honesty pay big dividends in a good reputation and increased business over the long term.

Berries for Tennessee.

"Adapted Varieties of Brambles and Strawberries for Tennessee" was the subject of a talk by Troy H. Jones, associate professor of horticulture, University of Tennessee. While brambles are not grown extensively in a commercial way in Tennessee, the blackberry and dewberry are found in great profusion in many counties. For those who wish to grow blackberries for home use, Professor Jones suggested Eldorado or Alfred, for both are resistant to orange rust. Of the newer types of trailing dewberries he recommended either boysenberry, youngberry or lavacaberry, which are large-fruited and well suited for locker freezing.

Raspberries, also of the bramble

group, come in red, black and purple, and the suggested varieties for each color type were Latham, Cumberland and Sodus. The agricultural experiment station of the University of Tennessee has recently introduced Tennessee Prolific, a red raspberry which has promise of replacing Latham.

The leading variety of the strawberry, which is the most important fruit grown in Tennessee, is Blakemore. Its nearest competitors are Tennessee Shipper and Tennessee Beauty, both bred and released by the agricultural experiment station of the university. The newest introduction is a seedling, No. 965, which will be given a variety name in the near future. Of all Tennessee fruits, Professor Jones noted, the strawberry is perhaps the most exacting in its local requirements, which accounts for an extensive breeding program at the experiment station.

Suitable Nut Trees.

Spencer B. Chase, who is with the forest products section of the Tennessee Valley Authority, Norris, gave an interesting talk on "Nut Tree Varieties for the South." The Tennessee Valley Authority, in cooperation with the state experiment station, has approximately thirty varieties of black walnut trees under test at the present time. There are over 100 varieties of black walnuts, and the purpose of the test is to collect varieties adaptable for commercial use in the Knoxville area. Test plantings of the Thomas variety indicate adaptability, along with the varieties Ohio and Stabler. There are many problems in the propagation of the black walnut, and one of them is the production of suitable stock for grafting or budding. Large nuts give more favorable seedlings than do the small-size nut. Cleft grafting within the nursery row has given approximately fifty-eight per cent take and is about as favorable as the budding method during the growing season. There is one problem of bleeding the stock. The stock is normally off a week or two before placing the scion. Mr. Chase also recommended controlling the taproot by running a transplanter underneath the seedling tree.

Asiatic species of chestnuts were introduced by the United States Department of Agriculture to replace the American chestnut. However, none have proved to be timber-type trees, though the Chinese chestnut offers definite promise as a nut tree. These trees thrive under a long, hot growing season and have a nut of equal quality to the American chestnut. Heavy planting is now taking

place with the seedling of the Chinese chestnut, but there is mixed parentage from seedlings, resulting in inferior nut quality. There are many problems in the propagation of the Chinese chestnut varieties that have not been met at the present time. However, the varieties Nanking, Meiling and Kuling are promising varieties of the Chinese chestnut. The Chinese chestnuts are more suitable than the Japanese chestnuts as nut trees.

Mr. Chase went on to mention several other nut trees, saying that the thin-shelled commercial varieties of pecans are not generally suitable for Tennessee. Hardy strains native to Kentucky and Indiana do offer promise for the area, and he suggested the varieties Poscy, Busseron



JOE N. HOWELL.

Retiring president of the Tennessee State Nurserymen's Association after two terms, Joe N. Howell, Knoxville, is a member of the executive committee of the Southern Nurserymen's Association and was program chairman for its golden jubilee convention at Chattanooga in 1949.

He was born in 1909 and attended Knox county schools and the University of Tennessee. From 1928 to 1942, Mr. Howell was a salesman and landscape designer for Howell Nurseries, Knoxville.

"Everything for the Outside" was chosen as the slogan for his own business as "landscape engineer," started in 1942 at Knoxville. The organization, which is strictly retail, constructs walls, walks, pools, terraces and driveways, builds lawns, moves large trees and handles everything, including the maintenance on its own jobs, to fulfill its slogan.

Completion of his new display grounds of approximately two acres is expected soon. It is surrounded by a native stone wall and has two circular stone houses at each end of the area for eye catchers. At the entrance, in the center, two larger circular stone houses dominate the scene. One is the sales office, the other a display center for colored pictures of completed landscape jobs and plant material.

In addition to his activities in the nurserymen's associations, Mr. Howell is a thirty-second degree Mason and a Shriner.

and Giles for trial. English walnuts vegetate early in the spring and are usually subject to late frost damage in the Tennessee area. Tests with hardy strains have proved disappointing at the present time. Hybrids with European and American species of filberts appear promising with several varieties found by Tennessee Valley Authority.

"A Progress Report on Experimental Work with Woolly Apple Aphis" was given by W. W. Stanley, associate entomologist at the state experiment station. Early in the season of 1949 work was started in an effort to control this pest of the fruit tree growers of Tennessee and other states. Several tests were set up that will require two growing seasons. In other tests aphis on the roots were killed by injecting Chlordane and benzene hexachloride (BHC) into the soil with a spray pump. Dichloroethyl ether also killed aphis on the roots. The kill from these chemicals was not evident for several weeks, and practical methods are still to be determined.

Horticulture Curriculum.

Dr. Neal D. Peacock, vice-dean of the college of agriculture and head of the horticulture department for seventeen years, introduced Dr. B. S. Pickett, who became the new head of the department of horticulture in January after leaving the University of Georgia.

"The Ornamental Horticultural Curriculum" was thoroughly outlined by Dr. Pickett, after he emphasized the fact that the college of agriculture at the University of Tennessee wants its students to receive the most liberal education possible within the four years allowed for a degree, an attitude seemingly in agreement with the American Association of Nurserymen.

The first two years in the college of agriculture are arranged to give all students as much basic science, economics, language and collateral sciences as possible and is designed so that students will have the chance at the end to enter a field of their own choice. All agricultural students during this period are required to take a course in ornamental work, as well as courses dealing with orchard, small fruits and vegetable crops and one in animal husbandry.

In the senior college curriculum, Dr. Pickett continued, a minimum of thirty hours must be taken in the major field, which is horticulture in this case. Certain work in the basic sciences is required, particularly in plant pathology, entomology, plant physiology and chemistry.

In the horticulture course, there are
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West Virginia Discusses Native Plants

By F. Waldo Craig, Secretary

The Canadian hemlock and the Catawba rhododendron were declared by Dr. Fred J. Nisbet, landscape instructor at West Virginia University, Morgantown, to be first-rate plants and as good as any plant material in the world, in his discussion on "The Use of Hemlock, Rhododendron and Halesia" given before the West Virginia Nurserymen's Association meeting at Gauley Bridge, February 2 and 3. *Halesia carolina*, the silver bell, on the other hand, was not given such a high rating, but could be used more widely than at present, in the opinion of the speaker. He pointed out that it would grow in average soil and did not need a strict ravine environment, as has been supposed.

Hemlock and rhododendron can be used as foundation plantings, but their use here is generally unwise. However, Dr. Nisbet stressed their use in the border. These borders should be as wide as possible, up to twenty feet, he pointed out, and suggested using the silver bell in the background with the Catawba rhododendron in the foreground. The white bell-shaped flowers of the silver bell in the spring and the yellow leaves in the fall form a pleasing contrast with the green evergreen leaves of the rhododendron.

In discussing the use of these plants, the speaker brought out many general principles of landscaping. He said that as little foundation planting as possible should be done and advised more plantings elsewhere on the property. There should be more color in flowers and foliage in the planting and more use of well formed shrubs in the home plantings.

Dr. Nisbet's remarks relative to the selection of plants for propagation purposes were particularly fitting. He advised the members to select plants with flowers of good color and foliage, good substance and other desirable qualities and to discard plants of poor quality. Be on the lookout for plants of superior quality, he advised, in order to improve the nursery stock being offered the public. Later, on visiting the Young Nurseries, Bickmore, the members saw an excellent example of what the speaker meant, for they were shown a compact, slow-growing hemlock which had been culled from many thousands of collected Canadian hemlocks. Dr. Nisbet mentioned Benson's Nursery, Bruceton

Mills, as having some outstanding selections of native plants.

In conclusion, Dr. Nisbet challenged the nurserymen to get out of the rut of using the same old plants year after year and advised them to search continually for and try new plants.



JOHN W. YOUNG.

President of the West Virginia Nurserymen's Association is John W. Young, owner of Young Nurseries, Bickmore, W. Va., who supplies the following biographical notes:

"It has been long enough since I was born for me to remember my father and some of our neighbors telling one another how quick, and just what, we were going to do to Spain for blowing up our ship.

"From then until World War I, what time I was not in the woods with my hounds giving the coons and bobcats a bad time (which was fun), I was between long, rocky corn rows with a hoe, giving the weeds a bad time (which wasn't).

"School? Oh, yes—McGuffey's fourth reader, with honors.

"The only Germans I saw were nice fellows safe behind barbed wire.

"Discharged from officers training school, December, 1918, found me at Tulsa, Okla., a married man and with a job selling life insurance. After a few years of that and homesick for my hills and my hounds, I was back in West Virginia with the same wife, three little Youngs, Olga, Bill and Margery, and a job selling for a local nursery.

"A few months of that and the same thing happened to my boss that has happened to many a nurseryman, and will continue to happen in this land of free men.

"I got the idea of owning a nursery, bought a truckload of stock and sold it at a profit, a practice I want to recommend to any young man who expects to stay in the nursery business.

"The business grew because I did not forget to work. It's a nice, small, general nursery and landscape business with special emphasis on growing hemlock for the trade."

The first speaker of the 2-day meeting was Otway Gunnoe, superintendent of Fayette county schools. In stressing the value of the nursery profession to the community, he pointed out the importance of the home in the community and how the planting of well selected nursery stock improved the home. He deplored the lack of facilities in schools to give a deep feeling for and a thorough understanding of the use of ornamental plants.

Mr. Gunnoe also gave the nurserymen a few of the outstanding facts concerning Gauley Bridge. The New and Gauley rivers join there to form the Kanawha river, and the town is watched over by three hills, Stony Point, Gobblers' Knob and Seldom Seen. In fact, the figure three is prominent in the geography of the town. In addition to the three rivers and three hills mentioned, there are also three bridges and three highways in or going through the town. Here, the speaker pointed out, the Kanawha river, backbone of a great industrial and beautiful valley, has its source, and all about is the finest mountain scenery in the world.

The symposium on the three plants, hemlock, rhododendron and halesia, was received with enthusiasm, and before it was over all the members were clustered around the hemlock plants being used in a pruning, grading and burlapping demonstration. Atlee Conner, Conner & Amos, Charleston, kept the discussion moving by injecting provocative questions and calling upon members to refute challenging statements from other members. There were some differences of opinion on the grades of individual plants and methods of pruning, but in the end a point of agreement was generally reached. During the symposium, Hans Dieckmann, John Dieckmann & Sons, Elm Grove, demonstrated that firm's method of using a sharp sickle and hand shears to prune hemlock. Dr. Nisbet pointed out that recent research indicated roots and tops of lining-out stock should not be cut back any more than was necessary to keep the plants alive, and they would make more rapid growth.

At the luncheon in the Chestnut room of the Edgewater Club, the music and band director of Gauley Bridge high school presented a small

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Propagation Main Kentucky Topic

By Howard G. Tilson, Secretary

At its twenty-fourth annual meeting, February 6 and 7, at the Lafayette hotel, Lexington, the Kentucky State Nurserymen's Association re-elected President Daniel Gardiner, Boone Gardiner Nurseries, Louisville, for a second term. Other officers carried over for another year are: Vice-president, Walter Hillenmeyer, Hillenmeyer Nurseries, Lexington; secretary, Howard G. Tilson, Kentucky agricultural experiment station, Lexington; treasurer, Mrs. Grace G. Walker, Kingsley Walker Co., Louisville, and committeeman, Herbert F. Bunton, Bunton Seed Co., Louisville. Daniel Gardiner became the new delegate to the American Association of Nurserymen.

Life Memberships Awarded.

The meeting got off to a pleasant start with a luncheon in the Gold room, after which President Gardiner reviewed the activities of the association during the past year, first mentioning that the group had landscaped the first marker inside Kentucky on the Blue Star Memorial highway. Pictures of the planting, which was completed in May, 1949, were shown.

Another accomplishment for the association, done by Otto A. Rothert, was the compiling and publishing in booklet form of the minutes of the Louisville Retail Nurserymen's Association together with comments and references to the activities of the Kentucky State Nurserymen's Association.

The president urged the members to start planning for the 1951 meeting, which will mark the association's twenty-fifth anniversary. His suggestion to elect the five living charter members of the association to life honorary membership was unanimously approved. Beautifully engraved lifetime membership certificates were presented to the charter members, who are R. L. Haag, Haag Nurseries, Jeffersonton; Kingsley Walker, Louisville; Theodore Zollinger, Ridgeway Nurseries, St. Matthews; Senator Alvin Kidwell, Willadean Nurseries, Sparta, and Nick Verburg, Nick's Nursery, Anchorage.

William J. Smart, D. Hill Nursery Co., Dundee, Ill., the first guest speaker on the program, spoke on "General Conditions in the Nursery Industry," giving a concise picture of the present and future conditions as he saw them. He spoke of the

shortage of good-quality nursery stock in finished sizes and predicted a profitable future for the nurseryman who remains alert and willing to base his propagation on sales. Mr. Smart advised every nurseryman to be active in local, state and national nurserymen's organizations, to keep prices in line with costs of labor and materials and to have pride in his work.

Plant Propagation Expert.

Dr. L. C. Chadwick, department of horticulture, Ohio State University, spoke on "Plant Propagation,"



Daniel B. Gardiner.

first discussing general factors of propagation. He emphasized the first speaker's argument that propagation should be based on sales, that it should be planned ahead to the sale date and that the cost must be considered.

His reasons for seed failures were the lack of good seeds; the lack of understanding the different parts of a seed and the peculiarities of different seeds, and the losses from damping-off. To prevent the last, Dr. Chadwick advised the nurserymen to sow seeds early and to sterilize the soil and protect seedlings for the first fourteen days.

The speaker then turned his attention to grafting, stating that little advancement in methods have been made in the past fifteen years. If a plant can be budded, that method is preferable to grafting. Poor stock and poor handling of stock account for a

large part of the failures in grafting, which can be somewhat diminished by growing grafting stock a year ahead instead of collecting grafting material at random. Other pointers by Dr. Chadwick on grafting were to give constant attention to grafts in the case; that open bench grafting is good if moisture and temperature can be maintained; that grafts should do as well standing straight as leaning, which means benches must be deeper, and that red cedar has proved to be the best understock for juniper grafting.

The speaker then discussed the matter of dwarfing stock for apples, concluding that there is no agreement on the advantages of any of the understocks for dwarfing of apples and there are no known dwarfing stocks for flowering crabs.

The matter of cuttings was next taken up by Dr. Chadwick, who said the proper time of taking the cutting is an important factor, though the timing is not fully known. The leaves should be stripped from the base only.

Hardwood cuttings should be stored at a warm temperature of about 70 degrees for two weeks after they are made to allow for callusing. The remainder of storage time should be at a cold temperature of 35 to 40 degrees. Stem cuttings are usually better than leaf cuttings, though rhododendrons do best from leaf cuttings.

Dr. Chadwick told the group that the best humidity in houses for cuttings was eighty to eighty-five per cent in winter and eighty-five to ninety per cent in summer. Sand is still the best single rooting medium. Bank sand does not always run uniform, but silica sand can be bought in grades and is usually uniform. More flexible root systems are produced if some vermiculite is used. A mixture of one-third to one-half vermiculite with sand is best, especially if used in outdoor frames.

While discussing watering methods, the speaker pointed out that constant level irrigation does not give good results and subsurface irrigation is hard to control. The use of copper pipe, 1/2 to 3/8-inch diameter, with small holes drilled at 1-foot intervals produces good results and cuts labor costs. Such pipes are laid on the surface of the rooting medium.

In answer to a question on how
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Cornell Speakers at New York School

By Clarence E. Lewis

The annual one-day nurserymen's school sponsored by the Nassau farm bureau was held on February 15 at the Long Island Agricultural and Technical Institute at Farmingdale, N. Y. After so much good weather, the day of the meeting was a miserable, humid, slushy day, but this had no effect on the attendance because approximately 150 persons availed themselves of the good program. The speakers were all from Cornell University, Ithaca, N. Y., "Far Above Cayuga's Waters"; so the weather conditions made them feel right at home.

Earl Good, of Hicks Nurseries, Inc., Westbury, acted as chairman of the meeting after being introduced by James MacFaul, assistant farm bureau agent.

Dr. D. S. Welch, extension specialist in nursery disease control at Cornell University, emphasized the new development in standardizing fungicidal names. The movement is sponsored by a group of pathologists in cooperation with the United States Department of Agriculture. By standardizing such names it would eventually eliminate the scores of trade names with which the public must contend. The following are the new names that will be employed when such a salt is used: Ferbam, for the salt ferric dimethyl dithiocarbamate (the most common trade name being Fermate); Ziram for zinc dimethyl dithiocarbamate; Nabam for disodium ethylene bisdithiocarbamate, and Zineb for zinc ethylene bisdithiocarbamate. The manufacturers will be able to use such names as Ferbam or Ziram, which will in time be as commonly used as lime-sulphur or Bordeaux.

Ferbam gives good control of rust fungi, such as cedar apple rust, where one and one-half pounds Ferbam plus three pounds of wettable sulphur to 100 gallons are applied to the foliage as soon as the leaves are exposed. Three applications at 10-day intervals may do the job, but five applications are better. This fungicide is also effective on rose leaf spot. Black spot of grapes, which also appears on ivy, may be controlled by using one and one-half pounds Ferbam to 100 gallons of water. It gives promise of being a control of anthracnose of sycamore and oak. The objection to the material is that it is black.

Ziram, which is white and not so effective as Ferbam, controls leaf blotch diseases of hickory and horse

chestnut when applied at the rate of two pounds to 100 gallons water.

No suggestions were given for the use of Nabam and Zineb.

It was strongly emphasized that fungicides should be applied before symptoms appear.

Shoot blight of Austrian pine, which attacks the bases of the needles and causes the tips of the branches to die, may be controlled by three applications of Bordeaux. It should be applied as soon as the needles break from the sheath. Dead tips should also be removed.

It was stated that viburnums, especially *V. carlesi*, are injured by sulphur fungicides. The injury resembles that of a disease.

Since there are so many London plane trees in this region, it was mentioned that a new disease, canker stain, was causing considerable damage to this species around Philadelphia. It has not been reported as far north as New York city as yet. This disease is carried only by pruning or climbing tools, which must be disinfected after each tree operation, the best disinfectant being wood alcohol.

Then Dr. G. Matthyse, who is extension specialist in nursery insect control at Cornell University, issued a spray and dust schedule for nursery insects in the Long Island and lower Hudson River valley areas.

It was mentioned that it is not possible to test all insects listed and that anyone should proceed cautiously in any questionable case, particularly with oils and dinitros. Do not use DN-289 or Elgetol 318, and use oils only where absolutely necessary on evergreens that have been drought-injured or winter-burned. Neither should sulphur and oils, even in separate sprays, be applied to the same plant in any one season.

Caution was given on the use of Parathion and other phosphorous insecticides, because they are extremely poisonous, and several cases of death to spray operators from Parathion are already known. Wear a respirator at all times when working with Parathion. Atropine is the antidote for Parathion and should be administered by a physician immediately upon suspicion of Parathion poisoning.

Dr. Matthyse said that DDT and Parathion wettable powder sprays require an extra wetter or spreader. Lead arsenate should have extra stickler, or linseed or fish oil at the rate of one pint to 100 gallons of spray.

The listeners soon became watchers as Kodachrome slides were shown of cankerworms, lace bugs, hundreds of aphids, spruce gall and many other insects and the damage they do to plants.

Dr. John Cornman, specialist in turf problems at Cornell University, told about "Lawn Public Enemy Number 1," the enemy in this case being crab grass, for which there is no 100 per cent chemical control. The mercury compounds seemed to have impressed the public the most as controls. One material that seems to show promise is potassium cyanate, which should be applied at the rate of eight pounds per acre. Two or three applications, a week apart, are necessary to do the job. This is not marketed as a crab grass killer. It is neither poisonous nor caustic to humans, although it does burn the grass temporarily.

It was also mentioned that by leaving the grass high it will shade the crab grass enough to discourage it. In this instance the grass should be left at a height of one and one-half to two inches.

If grasses are to be fertilized the operation should be done in the fall, which allows the grass to grow while the weeds are less active. The lawns may become well established and dense enough to discourage weeds from getting a start the next spring.

After lunch, Dr. A. M. S. Pridham, department of horticulture, Cornell University, talked about controlling weeds in the nursery, particularly those that are green during the winter. Carrot spray has been effective when applied at the rate of seventy-five pounds per acre. On young evergreens a continuous spray was recommended. When no nursery material is involved Santobrite may be used to kill all weeds. It is hard to keep in solution, and lye seems to be necessary in order to accomplish this. It is used at the rate of one-eighth part of lye to seven-eighths parts of Santobrite; in other words, if twenty-five pounds of material are to be used, three pounds of it must be lye. These twenty-five pounds are used in 200 gallons of water on one acre.

Oil sprays for winter weed control should be applied prior to bud breaks, probably in February or early March.

Mulches were briefly mentioned and were suggested for small areas.

Dr. W. E. Snyder, department of horticulture, Cornell University, col-

[Continued on page 44.]

Sixth Long Island Nurserymen's School

By Daniel Dowd

The sixth annual school of nurserymen and their employees was held at the Long Island Agricultural and Technical Institute, Farmingdale, N. Y., February 16 and 17, with the New York State Nurserymen's Association cooperating. The sessions were well attended by fifty-six registrants and about twenty-five guests. Out-of-state representation was noted from Pennsylvania, Connecticut, New Jersey and Delaware. The 2-day school consisted of morning talks on special subjects and afternoon workshops. Carl Wedell, head of the school of horticulture, led the landscape design group, and Harvey Gray, the nursery problem group.

Thomas Greenley began the first morning's session with a lively exposition of advertising techniques in a talk on "Eye Appeal." An old hand at commercial art and a great confidence builder, Mr. Greenley soon imbued everyone with the idea that he could do it if he tried. His technique makes use of a pencil, brush and diluted show card color for quick layout work. He termed black on white a truly dead color combination and suggested yellows, greens and browns as appropriate colors for horticultural layouts. He further stated that a sign would have more appeal with an off-center arrangement. A formula for an effective advertisement was well expressed in his slogan, "Catch 'em, smack 'em, sign off." Translated, this means: Use an eye-catching illustration; have a brief forceful message, and sign off with the firm name legibly written at the bottom of the advertisement.

A talk on "Tree Care, Simple or Fancy," by Daniel Dowd, stressed preventive rather than remedial care. The nurseryman, as a grower of trees, is in a position to anticipate future failings of trees and at an early stage can often correct with a pruning shears that which in later years might require heavy cuts and expensive cabling, bracing and surgery. Low branches, weak major crotches, broken and multiple leaders and poor shape are things to look for. Preventive care also calls for clean flush cuts and a twice-yearly follow-up on painted wounds and the maintenance of good vigor in trees. As a winter activity some nurseries do work on larger trees, and this is a good time, for the most rapid healing follows February and March pruning.

From a standpoint of safety it is imperative that the arborist know how to use a climbing rope.

Clarence Lewis used Kodachrome slides and architects' sketches to illustrate his point in a talk on "Woody Plants for Modern Homes." He observed that the newer architectural terms such as modern home, ranch house and sun house were hard to define, but that in these styles the general feeling was for horizontal line, living terraces, glass walls and picture windows. The latter are often misused, he said. With the modern type of house plant materials of dominant vertical line are in sharp contrast and discordant, but round, low and horizontal masses harmonize well with the buildings.

The full wall windows create a need for extremely low plants of ground cover quality. This type of window may also develop a trend to using indoor plantings to complement those outside. For properly oriented picture windows, a feeling of freedom is created by open, informal lawns, but there is a need for year-around foliage backgrounds. Examples of broad-leaved evergreens were shown.

Mr. Lewis observed that in the development of homesites in wooded areas the standing trees, having been headed up by necessary pruning, had rather a stilted look in contrast with the low lines of the buildings. A solution to this problem he thought might be found in the use of shade-tolerant, understory trees such as dogwood, oxydendrum and carpinus.

To open the speakers' program for the second day, Carl F. Wedell and his listeners as well enjoyed expanding his topic, "What Would You Do?", which dealt with how to handle the special or difficult customer. Specific cases suggested by the audience were discussed. At the close of this meeting many of the nurserymen voiced the opinion that more of this type of discussion should be included in future meetings.

As a guide to salesmen, Mr. Wedell offered his list of "Twenty Rules for Selling in the Nursery," which is available in mimeographed form to anyone interested. The rules are:

1. Approach customers correctly.
2. Serve customers in order.
3. Address customers properly (Mr. So-and-so or Sir).
4. Show genuine interest.
5. Know your stock.
6. Handle your stock with care.

7. Show enthusiasm in your work.
8. Keep traffic moving.
9. Keep customers' good will.
10. Avoid arguments.
11. Keep suggestions positive.
12. Hold customers by selling good value.
13. Invite new customers by your attitude.
14. Know customer types.
15. Have a good telephone personality.
16. Stress essentials to increase sales.
17. Keep up to date.
18. Price merchandise with tags.
19. Arrange merchandise properly.
20. Be clean and neat.

Kodachrome slides were used to show those perennials of most worth when Daniel Dowd spoke on "Proven Perennials." By using generous masses of perennial color against a good foliage background in his sales grounds the nurseryman can attract attention and at the same time suggest uses for his woody material.

The best perennials for most customers are hardy, disease-resistant, vigorous growers and easy propagators. The best sellers are the showy kinds and newer varieties. Biennials and poor propagators are best left to the herbaceous plant specialists because of the work involved in growing them. Mr. Dowd's list of proven perennials included columbine, lupine, bearded iris, Japanese iris, Siberian iris, peony, Shasta daisy, Rudbeckia purpurea, hemerocallis, Phlox paniculata and chrysanthemums of the cushion type.

In a talk entitled "Small Spraying and Dusting Equipment," Dr. Louis Pyenson discussed the relative merits of insecticide and fungicide dispensers including conventional types, mist sprayers, wet dusters and fog applicators. The wet duster is said to have the advantages of good adhesion, quick application and compact construction. It combines a duster and sprayer with a turbine blower and drift tube that gives coverage and distance as well. A need was expressed for a small wheelbarrow-type wet duster for small nursery use. Fog applicators were described as of limited value because they have little adhesion and as yet no effective fungicidal use.

Dr. Pyenson demonstrated the versatility of the conventional cone spray nozzle. By manipulation of the parts and pressure one can control atomization, distance and spray pattern. Removal of the vortex plate will give distance to reach into trees. The

[Continued on page 60.]

MAY WE SERVE YOU

WITH QUALITY LINING-OUT STOCK FOR SPRING, 1950?

GRAFTS

Strong, healthy scions, grafted on well established understocks, potted in 2 1/4-in. rose and 3-in. pots. Ready about May 15.

	Each per 10	Each per 100
ACER PAL. BURGUNDYLACE, our introduction. Burgundy-red, lacy foliage, hardy, good grower, nice habit	\$1.25	\$1.00
Biota aurea nana	.60	.45
Cornus florida rubens	.75	.60
Cornus kousa chinensis	.80	.65
Rhododendron Hybrids, 3-in. pot		
Caractacus, Chas. Dickens, Cataw. Album, Dr. Dresselhuys, Mrs. C. S. Sargent, Roseum Elegans	.95	.80

ROOT GRAFTS

Strong scions grafted on sturdy roots. For shipment when grafted, or approximately March 15. Indicate on order.

	Each per 10	Each per 100
MALUS. Flowering Crab Apple	\$0.15	\$0.12
Atroraguneae, Dolgo, Eleyi, Floribunda, loensis Plena, Scheideckeri, Sargentii, Spec-talis, Niedzwetzkyana, Parkmani, Theileri		
PRUNUS. Flowering Japanese Cherry	.20	.15
Amanogawa, dbl., pink, pyramid		
Kiku-chidare, dbl., pink, weeping		
Kwanzan, dbl., pink		
Mt. Fuji, dbl., white		
Shidare-higan, sgl., pink, weeping		
Yoshino, sgl., pink		
Single White		
SYRINGA. French Hybrid Lilac	.20	.15
Ambassadeur, sgl., blue		
Congo, sgl., red		
Comte de Kerechov, dbl., red		
Diplomat, sgl., blue		
Edith Cavell, dbl., white		
Ellen Willmott, dbl., white		
Etna, sgl., purple		
Hugo Koster, sgl., lilac		
Jan Van Tol, sgl., white		
Katharine Havemeyer, dbl., pink		
Leon Gambetta, dbl., lilac		
Ludwig Spaeth, sgl., purple		
Mme. A. Buchner, dbl., pink		
Monge, sgl., purple		
Mont Blanc, sgl., white		
Mrs. Edw. Harding, dbl., red		
Pres. Lincoln, sgl., blue		
Pres. Grevy, dbl., blue		
Ruhm von Horstenstein, sgl., red		
Henry Martin, dbl., lilac		

ROOTED CUTTINGS

Strong, healthy cuttings, sized for your convenience and protection and treated with hormones, assuring abundant root system for sale shipping and planting. Ready about April 15.

	Each per 10	Each per 100	Each per 1000
Buxus koreana, hardiest, 3 to 5 ins.	\$0.11	\$0.04 1/2	\$0.06
Ilex crenata, selected, 4 to 6 ins.	.10	.08	.07
Ilex crenata, selected, 6 to 8 ins.	.12	.09	.08
Ilex cr. convexa (bullata), 4 to 6 ins.	.10	.08	.07
Ilex cr. convexa (bullata), 6 to 8 ins.	.12	.09	.08
Ilex cr. grandifolia, new, 4 to 6 ins.	.15	.12 1/2	.10
Ilex cr. grandifolia, new, 6 to 8 ins.	.17 1/2	.15	.12
Ilex cr. microphylla, 4 to 6 ins.	.12	.09	.08
Ilex cr. microphylla, 6 to 8 ins.	.13	.10	.09
Ilex cr. latifolia, 4 to 6 ins.	.10	.08	.07
Ilex cr. latifolia, 6 to 8 ins.	.12	.09	.08
Ilex cr. rotundifolia (175), 3 to 4 ins.	.10	.08	.07
Ilex cr. rotundifolia, 4 to 6 ins.	.12	.09	.08
Ilex cr. rotundifolia, 6 to 8 ins.	.13	.10	.09
Ilex opaca pyramidalis, hardy, female, 3 to 5 ins.	.17 1/2	.15	.14
Taxus bac. repandens, 4 to 6 ins.	.10	.08	.07
Taxus bac. repandens, 6 to 8 ins.	.12	.09	.08 1/2
Taxus cuspidata, spr., 6 to 8 ins.	.10	.08	.07 1/2
Taxus cuspidata, spr., 8 to 10 ins.	.12	.09	.08 1/2
Taxus cusp. brevifolia (nana), 4 to 6 ins.	.10	.08	.07
Taxus cusp. brevifolia (nana), 6 to 8 ins.	.12	.09	.08 1/2
Taxus cusp. intermedia, 4 to 6 ins.	.10	.08	.07
Taxus cusp. intermedia, 6 to 8 ins.	.12	.09	.08 1/2
Taxus cusp. intermedia, 8 to 10 ins.	.13	.10	.09 1/2
Taxus cusp. thuyae, 8 to 10 ins.	.12	.09	.08 1/2
Taxus cusp. Vermeulen, 4 to 6 ins.	.10	.08	.07 1/2
Taxus cusp. Vermeulen, 6 to 8 ins.	.12	.09	.08 1/2
Taxus media hatfieldi, 4 to 6 ins.	.10	.08	.07 1/2
Taxus media hicksi, 4 to 6 ins.	.10	.08	.07 1/2
Taxus media hicksi, 6 to 8 ins.	.12	.09	.08 1/2
Taxus media hicksi, 8 to 10 ins.	.13	.10	.09 1/2
Taxus media kelseyi, 4 to 6 ins.	.10	.08	.07 1/2
Taxus media kelseyi, 6 to 8 ins.	.12	.09	.08 1/2

TRANSPLANTS, POTTED STOCK, etc.

All stock healthy, well rooted and liberally graded.

	Each per 10	Each per 100	Each per 1000
Abelia grandiflora, 2 1/4-in. pot, 6 to 8 ins.	\$0.15	\$0.12	\$0.11
Asalea (frame stock will be ready May 1 to 15)			
arborescens, 3 to 6 ins., X, bed, branched (300)	.30	.25	.20
arborescens, 6 to 9 ins., X, bed, branched (350)	.45	.30	.25
arborescens, 9 to 12 ins., X, bed, branched (100)	.40	.35	.30
Babeuf, 2 to 4 ins., X, frame	.20	.15	.12 1/2
calendulacea, 3 to 6 ins., X, bed, branched (100)	.30	.25	.20
C. B. Van Nes, 3 to 5 ins., X, frame	.20	.15	.12 1/2
C. B. Van Nes, 4 to 9 ins., X, bed, br. (300)	.30	.25	.20
Gable Hybrid, 2 1/4-in. pot (5 ea. of 5 varieties)	\$6.25		
Gable Hybrid Mildred Mae, 2 1/4-in. pot	.25	.20	.15
Hinodegiri, 1-yr., X, bed, 3 to 5 ins.	.25	.20	.15
Hino-crimson, 2 1/4-in. pot	.20	.17 1/2	.15
Hino-crimson, 4 to 6 ins., XX, field	.50	.40	.30
Hino-crimson, 6 to 8 ins., XX, field	.60	.50	.40
Hugo Hardyzer, 3 to 5 ins., X, frame	.20	.15	.12 1/2
kaempferi, 3 to 5 ins., X, frame	.20	.15	.12 1/2
kaempferi, 1-yr., X, bed, branched (300)	.30	.25	.20
kaempferi Carmen, Fedora and Louise, 2 1/4-in. pot	.20	.15	.12 1/2
ledifolia alba, 2 1/4-in. pot	.15	.12 1/2	.10
maxwellii, 2 1/4-in. pot	.20	.15	.12 1/2
mucronulatum, 2 1/4-in. pot (May 1 to 15)	.20	.17 1/2	.15
pontica, 2 to 4 ins., X, frame	.20	.15	.12 1/2
pontica, 4 to 6 ins., X, bed, branched (200)	.30	.25	.20
poukhanensis, 3 to 5 ins., X, frame	.20	.15	.12 1/2
Vuykiana Hybrids, 2 1/4-in. pot	.25	.20	.15
Beethoven, Jos. Hayden			
Johann Strauss, P. W. Hardyzer			
Cornus kousa chinensis, own-root, 2 1/4-in. pot	.60		
Fagus sylv. purpurea, 1-yr., sdlg., 6 to 9 ins.	.20	.15	.12 1/2
Franklinia alatamaha (Gordonia), 1-yr., 3-in. pot, 6 to 9 ins.	.55	.40	.30
Franklinia alatamaha (Gordonia), 1-yr., 3-in. pot, 9 to 12 ins.	.65	.45	.35
Hamamelis ssp. flaveo-purpurea, red, 1-yr., gr., 3-in. pot	1.00		
Hamamelis jap. succariniensis, yellow, 1-yr., gr., 3-in. pot	1.00		

	Each per 10	Each per 100	Each per 1000
Ilex opaca pyramidalis, hardy, female, 1-yr. 2 1/4-in. pot	\$0.35	\$0.30	\$0.25
Magnolia soulangeana, 2 1/4-in. rose pot	.60	.50	.40
Magnolia stellata, 2 1/4-in. rose pot	.60	.50	.40
Magnolia stellata Waterlily, 2 1/4-in. rose pot	.60	.50	.40
Malus eleyi, 1-yr., X, 2 to 3 ft. (200)	.35	.30	.25
Malus floribunda, 1-yr., X, 1 to 2 ft. (100)	.30	.25	.20
Malus floribunda, 1-yr., X, 2 to 3 ft. (200)	.35	.30	.25
Malus scheideckeri, 1-yr., X, 1 to 2 ft. (100)	.30	.25	.20
Malus scheideckeri, 1-yr., X, 2 to 3 ft. (100)	.35	.30	.25
Malus spectabilis, 1-yr., X, 1 to 2 ft. (100)	.30	.25	.20
Prunus Amanogawa, 1-yr., X, 1 to 2 ft. (100)	.35	.30	.25
Prunus Yoshino, 1-yr., X, 2 to 3 ft. heavy (300)	.45	.35	.30
Pieris japonica, 2 to 4 ins., X, frame (May 1 to 15)	.20	.15	.12 1/2
Pieris japonica, 4 to 6 ins., XX, bed	.30	.22 1/2	.20
Pieris japonica, 6 to 9 ins., XX, bed	.35	.27 1/2	.25
Pieris floribunda, 6 to 9 ins., XX, bed (100)	.40	.30	.25
Pieris floribunda, 9 to 12 ins., XX, bed (100)	.45	.35	.30
Rhododendron Hybrid, sdlg., red, 2 to 4 ins., frame (May 1 to 15)	.22 1/2	.17 1/2	\$0.15
Rhodo. carolinianum, 2 1/4-in. pot (May 1 to 15)	.20	.15	.12 1/2
Syringa (French Hybrid Lilac), our selection of 5 each of 5 named varieties, 6 to 9 ins., X, \$6.25			
Taxus cusp. brevifolia, 2-yr., X, 6 to 10 ins. (350)	.30	.25	.20
Taxus cusp. intermedia, 2-yr., X, 6 to 10 ins. (250)	.30	.25	.20
Taxus media kelseyi, 2-yr., X, 6 to 8 ins. (300)	.25	.20	.15
Taxus media kelseyi, 2-yr., X, 8 to 10 ins. (200)	.30	.25	.20
Taxus media hatfieldi, 2-yr., X, 6 to 8 ins. (100)	.25	.20	.15
Taxus media hatfieldi, 2-yr., X, 8 to 10 ins. (300)	.30	.25	.20
Taxus media hatfieldi, 2-yr., X, 10 to 12 ins.	.35	.30	.25
Thuja occidentalis, 6 to 8 ins., X, bedded	.17 1/2	.12 1/2	.10
Thuja occidentalis, 8 to 10 ins., X, bedded	.20	.15	.12 1/2
Thuja occidentalis, 10 to 12 ins., X, bedded	.25	.20	.15
Tsuga canadensis, 6 to 8 ins., X, bedded	.17 1/2	.12 1/2	.10
Tsuga canadensis, 8 to 10 ins., X, bedded	.20	.15	.12 1/2
Viburnum burkwoodii, 2 1/4-in. pot	.25	.20	.15
Viburnum carlesii, 2 1/4-in. pot	.35	.30	.25
Wistaria mac. multijuga, 1-yr., gr., X (200)	.40	.30	.25
Wistaria mac. multijuga, 1-yr., gr., 3-in. pot	.50		
Wistaria mac. praecox, 1-yr., gr., 3-in. pot	.50		
Wistaria mac. Shironoda, 1-yr., gr., 3-in. pot	.50		

CONTRACT GROWING: Your inquiries solicited on contracts for propagating azalea rooted cuttings for fall, 1950, delivery, and grafts and rooted cuttings of evergreens and shrubs for spring, 1951. Your stock and/or scions or ours.

TERMS: 25 of a variety at 100 rate; 250 of a variety at 1000 rate. 2 per cent 10 days, net, 30 days, for those with established credit. All others cash with order, which deserves 3 per cent discount, or 50 per cent cash with order, balance C.O.D. Packing billed at cost.

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Eastern New York Election Meeting

By William Godding, Secretary

Despite snow and sleet which practically eliminated attendance from upstate and rural districts, forty members and guests gathered at the annual dinner meeting of the Eastern New York Nurserymen's Association and the chapter of the American Association of Nurserymen at Hilmann's Inn., Hartsdale, on February 15.

Officers reelected for another year were: President, John Dunn, West White Plains; vice-president, R. Langle, Raven Rock Nurseries, East View; secretary-treasurer, William Godding, Poughkeepsie Nursery Co., Inc., Poughkeepsie; director to the New York State Nurserymen's Association, William Jackson, Lewis & Valentine Landscape Corp., Rye, and alternate, Louis Weinstock, Poundridge Nurseries, Poundridge. Joseph Kijak, Green Valley Nursery, Hawthorne, is the new member of the executive committee.

Peter J. van Melle, Poukhkeepsie Nursery Co., Poughkeepsie, was elected chapter delegate to the American Association of Nurserymen board of governors, and Valteau C. Curtis, Charles G. Curtis Co., Callicoon, alternate. These two men, along with John Leeuwe, Callicoon, and Chester Cobb, Poughkeepsie, were the only members to drive into the meeting from outlying parts.

The dinner climaxed a day-long series of lectures on nursery subjects arranged by M. E. Buckley, director of the Westchester county farm bureau, and his assistant, William H. Bengueyfield, horticultural specialist of the bureau, in consultation with President Dunn. Some 150 nurserymen and other horticulturists filled the Little theater in the Westchester county center, where the program was held. The speakers were all from Cornell University. The first speaker, Dr. J. G. Matthyse, spoke on "Nursery Insects, Their Injury and Identification." "Plant and Tree Diseases and Their Control" was the topic of a talk by Dr. D. S. Welch, professor of plant pathology. Dr. A. M. S. Pridham, associate professor of ornamental horticulture, discussed the fertilizing and mulching practices in nurseries for the control of chickweed, and "Turf Insect Control in 1950" was outlined by Dr. J. Alfred Adams, assistant professor in the entomology department.

At the business meeting following

the dinner, Peter van Melle read the secretary's report for the absent officer. It showed that the association at the end of 1949 had forty-one active members, five associate members and eight deputy members that were paid up. The deputy members comprise staff members of active member firms.

Admitted late in 1949, with dues paid for 1950, were the following additional active members: Alfredo Nurseries, Tuckahoe; Joseph W. Morgan, Valley View Nursery, Pleasant Valley; Edwin T. Wayatt, Valhalla, and the Garden Center, Poughkeepsie. Newly admitted as paid-up active members at the annual meeting are William Whitton, Whitton's Nurseries, New Rochelle; Rudolph Hermann, White Plains, and Mastrianni's Dutch Mill Nursery, Schenectady.

Subject to their completion, the following incompleted applications were approved: R. O. Mead, Glens Falls, and William D. Foster, White Plains. This brings the active membership of the Eastern New York

Nurserymen's Association, exclusive of pending applications, up to forty-eight, including twenty-five A. A. N. memberships. Inquiries and applications are coming in at an unprecedented rate.

Howard C. Taylor, A. A. N. executive committee member at large, elaborated on plans for the diamond jubilee convention this summer. Valteau C. Curtis, director and vice-president of the New York State Nurserymen's Association, reviewed activities of the state association. Peter van Melle spoke on the importance of article IV, section 1, of the A. A. N. bylaws, under which management and control of the association is vested in a board of governors. From the writing of that provision, which was the cornerstone of the 1937 reorganization, dates the rise of the A. A. N.

A LANDSCAPE business has been started by Joseph C. LePetter, 17-34 One Hundred Forty-ninth street, Whitestone, N. Y.

LARGE PIN OAKS

200 Specimen Plants

6 to 12-in. caliper

\$50.00 each

(In the ground)

MARTIN VIETTE

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HICKSVILLE, N. Y.

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PRINCETON PRODUCTS ARE QUALITY PRODUCTS



Shade and Ornamental Trees, Shrubs, Vines, Evergreens, Hedge Plants, Ground Covers, Azaleas, Broad-leaved Evergreens, Pyracantha, Japanese Maples, Multiflora Roses, Fruit Trees and many scarce and hard-to-find items.

Send Your Want List.

PRINCETON NURSERIES

Phone: Princeton 1776
PRINCETON, N. J.

CHOICE LINERS FOR SPRING, 1950

EVERGREEN LINING-OUT STOCK

	100 rate each	1000 rate each		100 rate each	1000 rate each
10,000 <i>Abies balsamea</i> , 2-yr. S.....	\$0.06	\$0.05	3000 <i>Taxus cuspidata nana</i> , 3-yr. T.....	\$0.30	\$0.23
1000 <i>Abies lasiocarpa</i> , T. 3 to 4 ins.....	.06	..	2000 <i>Taxus cuspidata nana erecta</i> , 2-yr. T.....	.30	.25
300 <i>Chamaecyparis obtusa gracilis</i> , pot grafts.....	.35	..	1000 <i>Taxus cuspidata nana</i> , 5-yr. TT.....	.45	.40
300 <i>Chamaecyparis obtusa gracilis</i> , 1-yr. grafts.....	.50	..	3000 <i>Taxus cuspidata nana</i> , 6-yr. TT.....	.65	.60
250 <i>Chamaecyparis plumosa</i> , 4-yr. T.....	.30	..	10 to 12 ins.....	.85	.75
500 <i>Chamaecyparis plumosa aurea</i> , TT, 10 to 12 ins.....	.40	.35	5000 <i>Taxus intermedia</i> , 2-yr. T.....	.45	.40
1000 <i>Euonymus radicans</i> , 2-yr. T. 6 to 9 ins.....	.30	.25	2000 <i>Taxus cuspidata thayerae</i> , 4-yr. TT.....	.45	.40
3000 <i>Euonymus radicans carrierei</i> , 2-yr. T.....	.30	.25	850 <i>Taxus densiformis</i> , T. 6 to 10 ins.....	.30	.25
2000 <i>Euonymus radicans coloratus</i> , TT, 12 to 16 ins.....	.30	.25	4000 <i>Taxus intermedia</i> (spreading), 2-yr. T.....	.30	.25
5000 <i>Euonymus radicans vegetus</i> , T. 6 to 10 ins.....	.30	.25	600 <i>Taxus intermedia</i> (spreading), 3-yr. T.....	.35	.30
1000 <i>Ilex crenata</i> , 1-yr. T.....	.18	..	1000 <i>Taxus intermedia</i> (spreading), 5-yr. TT.....	.50	.45
1000 <i>Juniperus hibernica</i> , TT, 1 to 1 1/2 ins.....	.35	.30	2500 <i>Taxus intermedia hunselliana</i> , 2-yr. T. 6 to 10 ins.....	.30	.25
8000 <i>Picea albertiana</i> , 2-yr. S. 1 1/2 to 3 ins.....	.07	.06	2000 <i>Taxus media</i> (upright strain), 2-yr. T. 9 to 12 ins.....	.25	.20
5000 <i>Picea canadensis densata</i> , 3-yr. S. 2 to 5 ins.....	.07	.06	1000 <i>Taxus media</i> (upright), 3-yr. T.....	.35	.30
30,000 <i>Picea excelsa</i> , 2-yr. S. 3 to 6 ins.....	.04	.03 1/2	12 to 15 ins.....	.35	.30
4000 <i>Picea excelsa</i> , 3-yr. S. 3 to 6 ins.....	.06	.05	4000 <i>Taxus media Halloran Strain</i> , 2-yr. T.....	.25	.22 1/2
10,000 <i>Picea excelsa</i> , 3-yr. T. 3 to 6 ins.....	.10	.09	2000 <i>Taxus media Halloran Strain</i> , 3-yr. T.....	.35	.30
25,000 <i>Picea pungens</i> , 2-yr. S. 2 to 5 ins.....	.07	.06	9 to 12 ins.....	.35	.30
5000 <i>Picea pungens</i> , 3-yr. T. 1 1/2 to 4 ins.....	.12	.10	3000 <i>Taxus media Halloran Strain</i> , TT.....	.60	.50
400 <i>Picea pungens moerhousii</i> , pot grafts.....	1.00	..	3000 <i>Taxus media hatfieldi</i> , 2-yr. T.....	.30	.25
1000 <i>Pieris japonica</i> , 3-yr. T.....	.35	.30	8 to 12 ins.....	.35	.30
4000 <i>Picea banksiana</i> , 2-yr. S. 8 to 14 ins.....	.03	.02 1/2	3000 <i>Taxus media hatfieldi</i> , 3-yr. T.....	.35	.30
2000 <i>Pinus densiflora</i> , 3-yr. S. 9 to 18 ins.....	.05	.04	8 to 12 ins.....	.40	.35
6000 <i>Pinus densiflora</i> , 3-yr. T. 4 to 9 ins.....	.10	.09	3000 <i>Taxus media hatfieldi</i> , 4-yr. TT.....	.40	.35
3000 <i>Pinus nigra austriaca</i> , 2-yr. S. 4 to 6 ins.....	.06	.05	200 <i>Taxus media hatfieldi</i> , 6-yr. TT.....	.85	.75
20,000 <i>Pinus montana mughus</i> , 2-yr. S. 2 to 4 ins.....	.05	.04	15 to 18 ins.....	.85	.75
8000 <i>Pinus montana mughus</i> , 3-yr. S. 3 to 5 ins.....	.08	.07	10,000 <i>Taxus media hicksi</i> , 2-yr. T. 10 to 12 ins.....	.25	.20
8000 <i>Pinus montana mughus</i> , 3-yr. T. 3 to 6 ins.....	.10	.09	2000 <i>Taxus media hicksi</i> , 3-yr. T. 12 to 15 ins.....	.30	.25
25,000 <i>Pinus strobus</i> , 3-yr. T. 3 to 5 ins.....	.08	.07	1000 <i>Taxus media hicksi</i> , 4-yr. TT.....	.40	.35
5000 <i>Pinus sylvestris</i> , 2-yr. S. 3 to 7 ins.....	.05	.04	500 <i>Taxus media hicksi</i> , 6-yr. TT.....	.80	.75
4000 <i>Pinus sylvestris</i> , 3-yr. T. 4 to 9 ins.....	.09	.07	15 to 18 ins.....	.35	.30
4500 <i>Pinus sylvestris</i> , 3-yr. T. 9 to 18 ins.....	.12	.10	400 <i>Taxus media Moon's Columnaris</i> , 3-yr. T. 9 to 12 ins.....	.35	.30
5000 <i>Pinus thunbergii</i> , 4-yr. T.....	.12	.10	2000 <i>Taxus media stoyekeni</i> (new), (Fine pyramidal media type), 2-yr. T.....	.40	.35
1000 <i>Pseudotsuga douglasii</i> , 3-yr. S. 4 to 6 ins.....	.07	.06	350 <i>Taxus nana erecta</i> , T. 6 to 12 ins.....	.30	.25
5000 <i>Pseudotsuga douglasii</i> , 3-yr. T. 2 to 6 ins.....	.10	.09	400 <i>Taxus Vermeulen</i> , 2-yr. T. 6 to 10 ins.....	.30	.25
700 <i>Taxus baccata fastigiata</i> , 3-yr. T. 6 to 16 ins.....	.30	.25	5000 <i>Thuja occidentalis</i> , 2-yr. S.....	.04	.03 1/2
175 <i>Taxus baccata fastigiata</i> , TT, 12 to 15 ins.....	.50	..	500 <i>Thuja occ. compacta</i> , 3-yr. T.....	.35	.30
150 <i>Taxus baccata fastigiata</i> , 15 to 18 ins.....	.75	..	10 to 15 ins.....	.35	.30
1500 <i>Taxus capitata</i> (new hedgerow type), 2-yr. T. 8 to 12 ins.....	.35	.30	1200 <i>Thuja occ. compacta</i> , TT, 8 to 21 ins.....	.40	.35
6000 <i>Taxus capitata columnaris</i> (Parson's pyramidalis), 2-yr. T. 6 to 10 ins.....	.30	.25	1500 <i>Thuja occ. Columbia</i> (silver-tipped), T. 8 to 10 ins.....	.25	.20
1000 <i>Taxus cuspidata</i> , 2-yr. T. 6 to 10 ins.....	.30	.25	650 <i>Thuja occ. douglasii aurea</i> , TT.....	.40	.35
600 <i>Taxus cuspidata</i> , 3-yr. T. 8 to 10 ins.....	.35	.30	900 <i>Thuja occ. douglasii</i> (spiralis), 2-yr. T. 6 to 10 ins.....	.30	.25
2000 <i>Taxus cuspidata</i> , 4-yr. TT, 8 to 12 ins.....	.45	.40	1000 <i>Thuja occ. pyramidalis</i> , pot grafts.....	.35	..
250 <i>Taxus cuspidata</i> (No. 2, semiupright), 3-yr. T. 8 to 15 ins.....	.30	..	1500 <i>Thuja occ. pyramidalis</i> (transplanted grafts), 15 to 18 ins.....	.70	.60
400 <i>Taxus cuspidata</i> (No. 3, semiupright), 3-yr. T. 6 to 10 ins.....	.30	..	350 <i>Thuja occ. vervaenaeana</i> , 2-yr. T. 8 to 10 ins.....	.30	.25
2000 <i>Taxus cuspidata andersonii</i> , 2-yr. T.....	.30	.25	1000 <i>Thuja occ. wareana</i> , 2-yr. T. 6 to 8 ins.....	.30	.25
4000 <i>Taxus cuspidata brownii</i> , 2-yr. T.....	.30	.25	1500 <i>Thuja occ. woodwardii</i> , 2-yr. T.....	.35	.30
8 to 12 ins.....	.30	.25	6 to 10 ins.....	.03	.02 1/2
1000 <i>Taxus cuspidata buffoni</i> , 4-yr. TT.....	.45	.40	2000 <i>Thuja orientalis</i> , 2-yr. S. 6 to 10 ins.....	.04	.03 1/2
600 <i>Taxus cuspidata columnaris</i> , 3-yr. T.....	.35	.30	2000 <i>Thuja orientalis</i> , 3-yr. S. 12 to 18 ins.....	.06	.05
800 <i>Taxus cuspidata compacta</i> , 2-yr. T.....	.30	.25	500 <i>Thuja orientalis aurea nana</i> , 2-yr. tr. grafts.....	.60	.50
1000 <i>Taxus cuspidata nana</i> , 2-yr. T. 6 to 8 ins.....	.25	.20	5000 <i>Tsuga canadensis</i> , 2-yr. T. 6 to 10 ins.....	.25	.20

DECIDUOUS LINING-OUT STOCK

	100 rate each	1000 rate each		100 rate each	1000 rate each
3000 <i>Acer palmatum</i> , 1-yr. S. 6 to 8 ins.....	\$0.08	\$0.07	2500 <i>Rosa rugosa</i> , 1-yr. S. 2 to 4 ins.....	\$0.05	\$0.04
500 <i>Acer palmatum atropurpureum</i> , pot grafts.....	.75	..	500 <i>Viburnum burkwoodii</i> , pot grafts.....	.40	..
1000 <i>Azalea arnoldiana</i> , 1-yr. T. 6 to 9 ins.....	.18	.18	2000 <i>Viburnum burkwoodii</i> , 2 1/4-in. pots.....	.30	.25
2000 <i>Azalea Knapfordi</i> , 1-yr. T. 6 to 9 ins.....	.18	.18	1000 <i>Viburnum carlesii</i> , pot grafts.....	.40	..
1000 <i>Azalea poukhanensis</i> , 1-yr. T. 6 to 9 ins.....	.18	.18	3000 <i>Weigela Bristol Ruby</i> (patented), R.C. or 2 1/4-in. pots.....	.25	.22 1/2
5000 <i>Cornus florida</i> (selected understock), 12 to 18 ins.....	.06	.05	5000 <i>Vaccinium</i> (Hybrid Blueberries), rooted cuttings.....	.15	.10
1000 <i>Cornus florida rubra</i> , pot grafts.....	.40	.37 1/2			
500 <i>Fagus sylvatica riversii</i> , pot grafts.....	.60	..			
1000 <i>Forsythia spectabilis</i> , 1-yr. C.....	.06	.05			
500 <i>Malus</i> , assorted varieties, 1-yr. T.....	.25	..			

Varieties: Concord, Rubel, Pioneer, Rancocas, Jersey, Stanley, at above prices. These varieties 10¢ each higher: Weymouth, Atlantic, Pemberton, Dixie.

Please note—All pot grafts will be ready for shipment early May, 1950, at proper time.

All the above is grown by our best growers of lining-out material. All F.O.B. shipping points, packing additional at cost. Usual terms to trade accounts. The above is listed subject to prior sale and subject to usual trade terms as mentioned in our trade lists.

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	100 rate each	1000 rate each
<i>Althaea</i> (<i>Hibiscus</i> <i>Syracus</i>), Rose of Sharon, 5 to 10 ins., sdig., 1-yr.	.05	.03
<i>Althaea</i> (<i>Hibiscus</i> <i>Syracus</i>), Rose of Sharon, 10 to 20 ins., sdig., 2-yr.	.05	.03
<i>Azalea mollis</i> , 6 to 9 ins., XX, 3-yr. branched	.45	.40
<i>Azalea mollis</i> , 9 to 12 ins., XX, 3-yr. branched (B&B add 25c)	.65	.55
<i>Azalea mollis</i> , 12 to 15 ins., XX, 4-yr. branched (B&B add 25c)	1.00	..
<i>Azalea mollis</i> , 15 to 18 ins., XXX, 4-yr. branched (B&B add 25c)	1.25	..
<i>Berberis thun. atropurpurea</i> , 8 to 12 ins., X, 2-yr.	.17	..
<i>Buxus sempervirens</i> , 4 to 8 ins., XX, 2-yr.	.18	..
<i>Buxus welleri</i> , 2 to 6 ins., X, 1-yr.	.18	..
<i>Buxus welleri</i> , 4 to 8 ins., X, 2-yr.	.25	..
<i>Calycanthus floridus</i> , 4 to 10 ins., sdig.	.05	.04
<i>Chamaecyparis lawsoniana</i> , 8 to 12 ins., sdig., 2-yr.	.10	.08
<i>Chamaecyparis laws. allumi</i> , X, 6 to 10 ins., 1-yr.	.15	.13
<i>Chamaecyparis laws. allumi</i> , X, 10 to 15 ins., 2-yr.	.20	.18
<i>Chamaecyparis filifera aurea</i> , 4 to 8 ins., X, 1-yr.	.15	.12
<i>Chamaecyparis filifera aurea</i> , 6 to 10 ins., X, 1-yr.	.15	.12
<i>Cytisus purpureus</i> , Scotch Broom, X, 2-yr.	.17	.12
<i>Elaeagnus angustifolia</i> , sdig., 1-yr.	.05	..
<i>Euonymus carrierei</i> , 4 to 8 ins., X, 1-yr.	.10	.08
<i>Euonymus carrierei</i> , 6 to 10 ins., XX, 2-yr.	.15	.12
<i>Euonymus carrierei</i> , 9 to 12 ins., XXX, 3-yr. cutback	.25	.20
<i>Euonymus coloratus</i> , 4 to 8 ins., X, 1-yr.	.10	.08
<i>Euonymus coloratus</i> , 6 to 12 ins., XX, 2-yr.	.16	.15
<i>Euonymus fortunei erectus</i> , 4 to 8 ins., X, 1-yr.	.10	.08
<i>Euonymus fortunei erectus</i> , 8 to 12 ins., XX, 2-yr.	.18	.15
<i>Euonymus patens</i> , 4 to 8 ins., X	.12	..
<i>Euonymus vegetus</i> , 4 to 8 ins., X	.12	..
<i>Hex crenata</i> , 2 to 6 ins., X, 1-yr.	.12	.11
<i>Hex crenata</i> , 4 to 6 ins., XX, 2-yr.	.17	..
<i>Hex crenata</i> , 6 to 9 ins., XX, 2-yr.	.25	..
<i>Hex crenata bullata</i> , Convex Leaf Holly, 4 to 6 ins., X	.18	.16
<i>Hex crenata bullata</i> , Convex Leaf Holly, 6 to 8 ins., XX, 2-yr.	.25	..
<i>Hex crenata bullata</i> , Convex Leaf Holly, 8 to 12 ins., XXX, 3-yr.	.45	..
<i>Hex rotundifolia</i> , 3 to 6 ins., X, 1-yr.	.18	.12
<i>Hex rotundifolia</i> , 4 to 6 ins., XX, 2-yr.	.18	.16
<i>Hex rotundifolia</i> , 6 to 8 ins., XX, 2-yr.	.24	..
<i>Hex rotundifolia</i> , 8 to 12 ins., XXX, 3-yr.	.60	..
<i>Juniper</i> , Andorra, 6 to 9 ins., X, 1-yr.	.17	.15
<i>Juniper</i> , Andorra, 6 to 9 ins., XX, 2-yr.	.24	.22
<i>Juniper</i> , Irish, 6 to 8 ins., X, 1-yr.	.17	.15
<i>Juniper</i> , Irish, 8 to 12 ins., XX, 2-yr.	.24	.22
<i>Juniperus communis depressa plumosa aurea</i> , 4 to 6 ins., X, 1-yr.	.15	..
<i>Juniperus glauca hetzi</i> , 6 to 8 ins., X, 1-yr.	.17	.15
<i>Juniperus glauca hetzi</i> , 8 to 10 ins., X, 1-yr.	.22	.20
<i>Juniperus glauca hetzi</i> , 8 to 12 ins., XX, 2-yr.	.25	..
<i>Juniperus glauca hetzi</i> , 12 to 15 ins., XX, 2-yr.	.35	..
<i>Juniperus horizontalis glauca</i> , 6 to 8 ins., X, 1-yr.	.15	..
<i>Juniperus horizontalis glauca</i> , 8 to 12 ins., XX, 2-yr.	.20	.18
<i>Juniperus pfitzeriana Hill's Golden</i> , 5 to 8 ins., X	.30	..
<i>Juniperus virginiana</i> , 4 to 12 ins., sdig., 2-yr.	.07	.06
<i>Koeleruteria paniculata</i> , Golden Raintree, 4 to 8 ins., sdig., 1-yr.	.10	..
<i>Larix europaea</i> , 6 to 12 ins., X, 2-yr.	.10	.08
<i>Leucothoe catesbaei</i> , 4 to 6 ins., X, 3-yr.	.20	.18
<i>Picea excelsa</i> , 4 to 8 ins., X, 3-yr.	.12	..
<i>Pieris floribunda</i> , 6 to 10 ins., XX, 3-yr.	.35	..
<i>Pieris floribunda</i> , 10 to 15 ins., XX, 3-yr.	.50	..
<i>Pieris japonica</i> , Japanese Pieria, 4 to 6 ins., R.C.	.20	..
<i>Pieris japonica</i> , Japanese Pieria, 6 to 8 ins., XX, 3-yr.	.45	..
<i>Pieris japonica</i> , Japanese Pieria, 8 to 12 ins., XXX, 3-yr.	.65	..
<i>Pieris japonica</i> , Japanese Pieria, 12 to 15 ins., XXX, 3-yr.	1.00	..
<i>Pieris mariana</i> , 10 to 15 ins., XX, 3-yr.	.65	..
<i>Pieris mariana</i> , 10 to 15 ins., XX, 3-yr.	.90	..
<i>Pinus montana mugo</i> , 2 to 5 ins., sdig., 2-yr.	.05	.04
<i>Pyracantha lalandi</i> , 3 to 6 ins., R.C.	.10	..
<i>Quercus palustris</i> , Pin Oak, 6 to 12 ins., sdig., 1-yr.	.12	.10
<i>Rhododendron hybrid</i> , 9 to 12 ins., XXX, 4-yr.	.85	.70
<i>Rhododendron hybrid</i> , 12 to 15 ins., XXX, 4-yr. (B&B add 25c)	1.50	..
<i>Rhododendron hybrid</i> , 15 to 18 ins., XXX, 4-yr. (B&B add 25c)	2.25	..
<i>Taxus browni</i> , 3 to 6 ins., X, 1-yr.	.14	.12
<i>Taxus browni</i> , 6 to 8 ins., X, 1-yr.	.18	.16
<i>Taxus capitata</i> , 5 to 8 ins., X, 1-yr.	.18	.17
<i>Taxus capitata</i> , 6 to 8 ins., XX, 2-yr.	.25	..
<i>Taxus capitata</i> , 8 to 12 ins., XX, 3-yr.	.35	..
<i>Taxus cuspidata</i> , 3 to 6 ins., X, 1-yr.	.12	.11
<i>Taxus cuspidata</i> , 6 to 9 ins., X, 1-yr.	.15	.12
<i>Taxus cuspidata</i> , 6 to 9 ins., XX, 2-yr.	.20	.18
<i>Taxus cuspidata</i> , 8 to 10 ins., XX, 3-yr.	.28	..
<i>Taxus cuspidata</i> , 10 to 15 ins., XX, 3-yr.	.35	..
<i>Taxus media hicksii</i> , 3 to 6 ins., X, 1-yr.	.14	.12
<i>Taxus media hicksii</i> , 6 to 8 ins., X, 1-yr.	.18	.16
<i>Thuja occidentalis</i> , 4 to 8 ins., sdig., 2-yr.	.08	.06
<i>Thuja oec. ellwangeriana</i> , 6 to 9 ins., XX, 2-yr.	.15	..
<i>Thuja oec. elegantissima Geo. Peabody</i> , 4 to 6 ins., X, 1-yr.	.14	.12
<i>Thuja oec. elegantissima Geo. Peabody</i> , 6 to 9 ins., X, 1-yr.	.18	.16
<i>Thuja oec. globosa</i> , 4 to 6 ins., X, 1-yr.	.12	.11
<i>Thuja oec. globosa</i> , 6 to 8 ins., XX, 2-yr.	.18	.16
<i>Thuja oec. globosa nana</i> , 2 to 5 ins., X, 1-yr.	.15	.13
<i>Thuja oec. Hill's Golden</i> , 4 to 6 ins., X, 1-yr.	.18	.16
<i>Thuja oec. plicata</i> , 6 to 9 ins., XX, 2-yr.	.18	..
<i>Thuja oec. pyramidalis</i> , 4 to 6 ins., X, 1-yr.	.15	.13
<i>Thuja oec. pyramidalis</i> , 6 to 8 ins., X, 1-yr.	.20	.18
<i>Thuja orientalis</i> , Oriental Arborvitae, 4 to 8 ins., sdig., 1-yr.	.05	.03
<i>Thuja orientalis</i> , Oriental Arborvitae, 6 to 9 ins., sdig., 2-yr.	.08	.06
<i>Tsuga canadensis</i> , 12 to 15 ins., XXX, 5-yr., (B&B add 20c)	.65	..

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HARMONY, PA.

EDUCATION COMMITTEE OF N. L. N. A. REPORTS.

A meeting of the education committee of the National Landscape Nurserymen's Association was held January 4 at the Hotel Statler, New York, at which the various phases of the work were discussed, but action on the matters was deferred until the next meeting, at Chicago.

The meeting January 17 at the La Salle hotel, Chicago, was presided over by the chairman, Homer K. Dodge, Landscape Service Co., Framingham, Mass. Other members of the committee attending were Howard C. Taylor, Eastview, N. Y.; J. Franklin Styer, Concordville, Pa.; Harold E. Hunziker, Niles, Mich.; and Louis Hillenmeyer, Jr., Hillenmeyer Nurseries, Lexington, Ky. President of the N. L. N. A., Vernon Marshall, Marshall Nurseries, Arlington, Neb., was also present, as were most of the members of the association's executive committee.

Chairman Dodge reported that the proposed curriculum for landscape nurserymen had been printed by the American Association of Nurserymen and had been distributed to all land-grant colleges and other colleges teaching horticulture. It was noted that there was an excellent response from these colleges and that most of the returning letters expressed a favorable attitude by the colleges. The effectiveness of having the Washington office of the A. A. N. handle this phase of the work was most apparent in the response obtained.

In summarizing the education committee's purpose, it was explained that the object of the proposed curriculum was to provide training for skilled and capable operators in the landscape nursery and landscape construction field. This is a separate emphasis from the general nursery field, and the committee does not believe that both fields can be combined in one curriculum.

Because the educational program is a new effort, it is the committee's opinion that the members should work with only a few colleges for several years, at least until a number of graduates are working in the industry. They consider it undesirable to have a college turning out more graduates than can be absorbed by the landscape nurserymen in the area served by the college. If any state association wishes to promote the proposed curriculum at its state university, the committee hopes such association will work through the national committee, so that the program does not get out of hand. The members of the education committee

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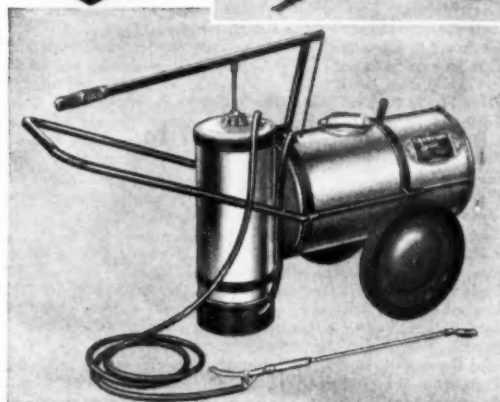
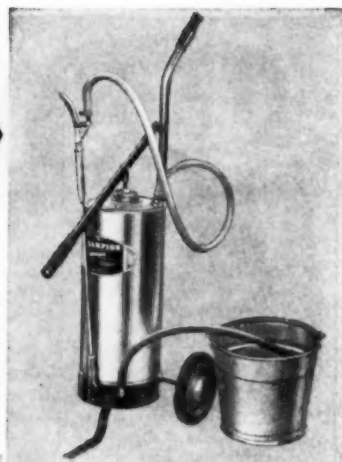
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	Per 10	Per 100	Per 1000
No. 1	\$5.50	\$50.00	\$450.00
No. 1 1/2		Sold out	
No. 2		Sold out	

TEA and HYBRID TEA

American Beauty. Deep pink; delightful fragrance; vigorous.
Ami Quinard. Dark velvety crimson, almost black.
Betty Uprichard. Coppery-red buds; large flowers of orange-carmine.
Briarcliff. Fine flower of silvery rose pink.
Caledonia. Long snowy-white buds; fragrant.
Christopher Stone. Velvety scarlet-crimson; fragrant; strong grower.
Condese de Sastago. Petals coppery-pink inside, golden on outside.
E. G. Hill. Long bud, fully double; dazzling scarlet; vigorous.
Edith Nellie Perkins. Buff inside, coppery-pink outside.
Editor McFarland. Shapely buds and double; brilliant pink blooms.
Etoile de Hollande. Brilliant red; huge; free-flowering; fragrant.
Frau Karl Druschki. White American Beauty. Magnificent pure white.
Golden Charm. Clear yellow form of Talisman; exceptionally fine yellow.
Golden Dawn. Rich straw-yellow buds flushed old-rose; flowers sunflower-yellow.
Grenoble. Clear scarlet-red; tall; strong-growing.
Joanna Hill. Large flowers, golden-buff, yellow center.
Kaiserin Auguste Viktoria. Snowy-white, tinted yellow at center.
Konigin Luise. Pure white, double; strong grower.
Lady Hillingdon. Pointed buds of deep saffron-yellow; fragrant.
Luxembourg. Coppery-yellow with deep yellow stains at the base of petals.
Mrs. P. S. du Pont. Double, rich yellow; free-flowering.
Picture. Warm pink, salmon undertone.
Pink Dawn. Flowers perfectly formed, deep rose-pink, shaded orange.
Poinsettia. Beautiful deep velvety red; subtle rose fragrance.
President Macia. Clear pink, slightly darker veining, long bud.
Radiance. Brilliant rose-pink; America's most popular rose.
Red Radiance. Similar to Radiance, but deep rose-red; everblooming.
Rouge Mallerin. Double blooms of lasting deep red.
Soeur Therese. Long pointed buds of chrome-yellow marked with carmine, opening into a rich daffodil-yellow.
Talisman. Bright apricot-gold and deep pink; very popular.

CLIMBERS

Cl. American Beauty. Carmine; fine form; rich perfume.
Cl. Etoile de Hollande. Brilliant red; huge, free-flowering; fragrant.
Cl. Mrs. P. S. du Pont. Double; rich yellow.
Cl. Radiance. Brilliant rose-pink.
Cl. Talisman. Bright apricot, gold and deep pink.
Paul's Scarlet. Intense scarlet; vigorous and free-flowering.
Silver Moon. Silvery-white, yellow stamens; very large.

AUSTRIAN COPPER ROSE

Introduced in 1596, it is one of the oldest roses in cultivation. The colors have never been improved upon. Actually one of the most amazing roses you have ever seen. The single flowers are intense coppery-red on one side and bright golden-yellow on the other. Hardy, vigorous when well established. Early bloomer.

	Per 10	Per 100
No. 1	\$6.00	\$55.00
No. 1 1/2	5.00	45.00
No. 2	3.50	30.00

THE WILLIS NURSERY CO.

"Your Wholesale Nurserymen"

OTTAWA, KANSAS

intend to work closely with the state associations, but do not feel capable of attempting work with a large number of colleges for several years yet.

BARBERRY QUARANTINE.

In the amended regulations supplemental to the black stem rust quarantine the requirement for attachment of a shipping-permit tag to each interstate shipment of rust-resistant barberry, mahonia or mahoberberis plants has been eliminated, by amendment effective February 11. Nurseries holding certificates of inspection are authorized to ship such plants interstate. In addition, nurseries will be issued certificates of inspection when holding varieties of barberry or mahonia, other than designated rust-resistant varieties, under agreement with the bureau of entomology and plant quarantine of the United States Department of Agriculture, pending the outcome of tests to determine whether they are rust-resistant. Plants of untested varieties must be maintained apart from rust-resistant varieties and may not be propagated or moved interstate until designated as rust-resistant.

Dealers will be authorized to make interstate shipments of rust-resistant barberry and mahonia plants obtained from nurseries holding valid federal certificates of inspection or from other authorized dealers.

Growers of barberry and mahonia seeds in the eradication states are also authorized to ship seeds to the other eradication states after issuance of a certificate of inspection. Authorized shippers of barberry and mahonia seeds grown in the eradication states will need to attach permits only to shipments of such seeds to other eradication states. The amended regulations continue to prohibit interstate shipments of barberry and mahonia seeds into the eradication states from the remaining twenty-nine states and the District of Columbia. There is no regulation of the interstate movement of such seeds into states outside the eradication states.

ERWIN WHITHAM, Manchester, Conn., who is the chairman of the executive and legislative committee of the Connecticut Nurserymen's Association, was a salesman for C. R. Burr & Co., Manchester, Conn., until two years ago, but now is a sales representative for Maxwell, Bowden & Rice, Inc., Geneva, N. Y., and for C. L. Vanderbrook & Son, Manchester, Conn. He is also part owner of Whitham Farms, at Manchester, specializing in perennials.

SPRING BULBS and PLANTS

25 or more of a variety or size at the 100 rate. 250 or more of a variety or size at the 1000 rate.

HARDY LILIES

Lilium Regale—Holland-grown			
6 to 7-in.,	Per 100	Per Case	
300 per case...	\$ 6.50	\$17.50	
7 to 8-in.,			
250 per case...	7.50	17.50	
8 to 9-in.,			
200 per case...	9.50	17.50	
9 to 10-in.,			
150 per case...	13.00	17.50	
10 to 11-in.,			
100 per case...	18.50	17.50	

Lilium Tigrinum Splendens—Holland-grown			
5 to 6-in.,	500 per case	\$5.00	\$20.00
6 to 7-in.,	300 per case	7.50	20.00
7 to 8-in.,	250 per case	9.50	20.00

Lilium Rubrum—Japanese-grown			
7 to 8-in.,	300 per case	\$25.00	\$65.00
8 to 9-in.,	200 per case	32.50	60.00
9 to 10-in.,	150 per case	37.50	50.00

Lilium Auratum—Japanese-grown			
7 to 8-in.,	300 per case	\$25.00	\$65.00
8 to 9-in.,	200 per case	30.00	50.00
9 to 10-in.,	150 per case	37.50	45.00

Lilium, Croft—Oregon-grown			
6 to 7-in.,	300 per case	\$20.00	\$45.00
7 to 8-in.,	250 per case	30.00	60.00

(N.B. Most lilies listed above can be offered F.O.B. Detroit, N. Y., or Chicago.)

PERENNIALS

Bleeding Heart (*Dicentra Spectabilis*). True, large-flowering type.

	Per 10	Per 100	Per 1000
3 to 5 eyes...	\$3.50	\$30.00	\$280.00
5 to 8 eyes...	4.50	40.00	360.00

TUBEROUS-ROOTED BEGONIAS

Belgian-grown. Double, Camellia-flowered type. Colors available: Red, Scarlet, Rose, Pink, Copper, Orange, Yellow, White or Mixed.

	Per 100	Per 1000
1 to 1 1/4-in.	\$ 3.50	\$ 25.00
1 1/4 to 1 1/2-in.	6.00	50.00
1 1/2 to 2-in.	9.00	80.00
2-in. and up.	12.00	100.00

PEONIES

Strong 3 to 5-eye divisions

**Delicatissima*. Light, clear pink
 **Duchess de Nemours*. Sulphur-white
 **Edulis Superba*. Bright pink, fragrant
 **Queen Victoria*. Flesh-white
 **Reine des Fleurs*. Cherry-red
 (* denotes excellent varieties for cut flower purposes.)

\$3.50 per 10, \$30.00 per 100,
 \$275.00 per 1000.

PEONIES—BY COLOR

3 to 5-eye divisions
 RED, by color } \$ 3.00 per 10
 PINK, by color } 25.00 per 100
 WHITE, by color } 225.00 per 1000

CANNAS

Strong, 3 to 5 eyes

City of Portland, deep pink
Eureka, white
President, rich red
Red King Humbert, red, bronze leaves
Yellow King Humbert, yellow, spotted red
 Per 100 Per 1000
 Above Varieties \$6.00 \$50.00

MISCELLANEOUS BULBS

ANEMONE, Per 100 Per 1000
Monarch de Caen... \$ 3.50 \$ 30.00
 ANEMONE, St. Brigid, double 3.50 30.00
 ISMENES *Calathina* 14.00 120.00
 MONTBRETIA, Miniature glad 5.00 40.00
 RANUNCULUS, *Tecolote Giant*, Mixed 3.50 30.00
 TIGRIDIAS, *Shell Flower*, Mixed... 6.00 50.00
 ZEPHYRANTHES, Mixed 5.00 40.00

TUBEROSES

Double Pearl Per 100 Per 1000
 2 to 3-in. \$ 3.00 \$ 20.00
 3 to 4-in. 5.00 40.00
 4 to 6-in. 9.00 75.00
 6 to 8-in. 13.00 120.00
 Mexican, Single
 3 to 4-in. 5.00 40.00
 4 to 6-in. 9.00 80.00

AMARYLLIS

Mead Strain, Giant American Hybrids
 Per 100 Per 1000
 2 1/4 to 2 1/2-in. \$14.00 \$120.00
 2 1/2 to 2 3/4-in. 16.00 150.00
 2 3/4 to 3 -in. 19.00 180.00

FANCY-LEAVED CALADIUMS

Candidum. Leaf snow-white, green veins
Crimson Wave. Transparent scarlet leaf
Mrs. Haldeman. Bright pink, green edge
Mrs. Sanders. Green, blotched rose
Lord Derby. Transparent rose leaf
Triomphe d'Exposition. Green, red veins

	Per 100	Per 1000
3/4 to 1 1/2-in.	\$ 9.00	\$ 75.00
1 1/2 to 2 1/2-in.	14.00	125.00
2 1/2 to 3 1/2-in.	20.00	175.00
3 1/2-in. and up.	30.00	275.00

CALADIUM ESCULENTUM

(Elephant Ears) Per 100 Per 1000
 7 to 9-in. \$11.00 \$ 90.00
 9 to 11-in. 18.00 165.00
 11 to 13-in. 27.50 250.00
 13-in. and up. 35.00 325.00

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Our "RAINBOW MIXTURE" of gladioli has won great favor with nurserymen. It contains only good cut flower varieties. Try some of each size for successive plantings through the summer months. We especially recommend the No. 1 grade for counter sales.

GLADIOLI	Per 1000
Rainbow No. 1 No. 2 No. 3	
Mixture	\$18.00 \$15.00 \$12.00



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The only possible way for the average dealer to handle many types of garden plants and bulbs is in packaged form.

We have available in packaged form such items as ROSEBUSHES, GLADIOLI, DAHLIAS, PEONIES, BLEEDING HEARTS, as well as many other types of bulbs and plants.

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TERMS: 2% 10 days; 30 days net, if credit is established. Cash with order earns 3% discount. Subject to prior sale, F.O.B. Farmington.

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 FARMINGTON, MICHIGAN
 PHONE: Farmington 1890

Plant Notes Here and There

By C. W. Wood

An Oklahoma reader writes as follows: "Several years ago you mentioned a little milkweed from this section as having garden value. I saved the article but now cannot find it. Could you give it again?"

I am not sure, for obvious reasons, what is the exact plant referred to, though I suspect it is *Asclepias nummularia*, a tiny milkweed that I had from a western collector, now gathered to his fathers, who in turn had it from the mountains of New Mexico. My floras do not exactly define the limits of its range, and it is not beyond the bounds of reason to expect it to occur in other parts of the southwest, perhaps in northwestern Texas, southern Colorado, maybe even in western Oklahoma. My recollection of its exact behavior in our trials here in northern Michigan is rather hazy, but I do remember that it is one of the most charming small milkweeds that I ever grew. It made two succulent leaves, more curious than beautiful, but really an ornamental curiosity. And from the center sprang clusters of pinkish milkweed flowers. The indefinite phrases and inadequate descriptive terms do not make for an exciting picture, but you can lay that to the writer rather than the plant, for it is a most curiously lovely rock garden ornament. I remember, too, that we grew it easily from seeds and that it offered no special cultural problems, except that it was a little too tender for this severe climate.

Again, the correspondent may be referring to the milkweed cousin, *Asclepiodora decumbens*, more familiarly known as antelope horns. In it, we find a plant of six to eight inches, as it grew here, with balls of pale green flowers, unshowy in themselves, but curiously attractive in the fruiting stage, when the plant forms seed pods which simulate antelope horns. Nor does that sound exciting either. Actually, the plant is not showy, but I noticed that visitors were nearly always moved to the questioning stage when they saw it in fruit.

I hope this answers the question. If it does not, I shall be glad to go over my notes more thoroughly if the correspondent will give more details.

Anthemis Montana.

After one buys seeds of *Anthemis montana* a few times from different

sources, he will likely commence to wonder what the species really is supposed to be. He may—I repeat he may—obtain something fairly close to what the botanists say is *A. montana*, but he is more apt to get something else.

My attention was attracted to these discrepancies soon after I had grown it from seeds, and it prompted the collecting of everything I could find with *montana* attached to it. The result was that at one time there were eight different plants in the garden under the same label, all of them worthy of garden space and some of more than passing interest. For instance, there was one with silky white woolly leaves, as lovely as any *artemisia* I ever saw, probably variety *saxatilis*, and there was another with pink marguerites, instead of the usual white of *montana* varieties. It probably was variety *aetnensis*, but of that I cannot say with certainty, for no pressed specimen of the plant was made, and it has long since joined its fathers, perhaps because it lacked hardiness.

It can be said with certainty, though, that almost any form of the plant, even the plain green-leaved

kinds that come one's way, will be worth growing for their long season of white marguerites alone. And they are all, so far as I know, easily satisfied in any light soil in sun.

Rudbeckias.

Some of the rudbeckias, or cone-flowers, are quite well known, especially golden glow, which was formerly grown in almost every garden, while others of equal or even greater value have had little attention from gardeners. It is true that they are mostly coarse plants and have to be used with discretion, but for certain situations where masses of one species can be used, there are few more generally satisfying plants of their season. I recall, for instance, one well planned garden where *Rudbeckia speciosa*, *Campanula lactiflora* and blue hardy asters made the commanding picture during July, August and September. Numerous other landscape associations are possible, using different rudbeckias for the yellow and orange shades.

So far as culture is concerned, these cone-flowers have everything in their favor, for, although some grow naturally in rather moist soil, they do

HEMLOCK

(*Tsuga Canadensis*)

	Per 100
18 to 24 ins., XXX, sheared, B&B.....	\$175.00
2 to 2½ ft., XXX, sheared, B&B.....	225.00
2½ to 3 ft., XXX, sheared, B&B.....	300.00
3 to 3½ ft., XXX, sheared, B&B.....	350.00

Also

RHODODENDRON — KALMIA — AZALEAS

Japanese Beetle B Certificate on All Shipments

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EUONYMUS ALATUS FOR LINING OUT

From 2 to 4 ft., single stems.

When cut back they make beautiful plants in two years.

\$25.00 per 100 \$225.00 per 1000

Will not ship out of the beetle zone.

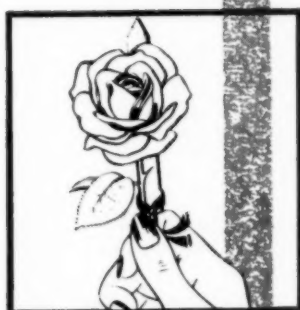
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BETTER FLOWERS,
BIGGER BLOOMS...
with less work!*



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CULTILLER is an all-purpose tractor, whose many attachments make life easier (and more profitable) for the Nurseryman and Wholesale Florist. It prepares perfect seed beds...and plows, discs and harrows in one operation! Result: better and bigger blooms...and more of 'em!

CULTILLER'S compact construction enables you to work the soil thoroughly and cultivate with no danger to your plants. Its 3 h.p. engine gives you plenty of power, yet it handles with surprising ease. Its low cost and minimum upkeep make it efficiently economical. Important: no other attachments can be interchanged so simply and so fast! **MAIL THE COUPON BELOW FOR COMPLETE INFORMATION.**



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CULTILLER with POWER SPRAYER. 25-gal. capacity. Delivers 150 gals. per hour. 250-lb. nozzle pressure. For use in hard-to-get-at spots.



CULTILLER with SICKLE BAR. Cuts 36" swath. Constructed to operate quietly and without vibration.

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quite well in almost any soil or situation that is given them. They do best in sun, to be sure, but accommodate themselves to partial shade. Even the kinds preferring moisture give a good account of themselves in ordinary border soil, especially if given a little shade. They grow readily from seeds, a method often preferred by propagators, but the named varieties and fully double forms must be grown from divisions and cuttings. The latter are easily rooted in the ordinary way if shoots are pulled away from the old plant in late spring.

In addition to *R. laciniata* with its form *Golden Glow* and *R. hirta*, black-eyed Susan, both of which are too well known to need comment, the following kinds may be mentioned. *R. speciosa*, which is *R. newmani* of some, has large (three inches or so across) heads of yellow to orange flowers on medium-size plants. *R. nitida* is a southerner too tender for northern Michigan, but the variety *Herbstsonne* appears to be slightly hardier, though it would probably not be fully hardy north of Chicago; it grows up to seven feet in height and produces abundantly of its yellow coneflowers. It and the type show in their drooping ray petals and columnar disks the close relationship of *rudbeckia*, *lepacys* and *echinacea*. In *R. submontosa*, the bright lemon-yellow ray petals and dark purple centers make a pleasing contrast and may be used where the golden-yellow and orange of other kinds would be out of place. It grew about three feet tall in trials here. As originally described and as usually seen, *R. fulgida* has orange-yellow flowers. A strain of so-called hybrids is now available which produces a number of shades in orange and yellow, many of the flowers having central rings of brown or red-brown, while others may be tipped with these colors. They proved to be useful summer bloomers in our trials, flowering the first year from early-sown seeds and always blooming for two months or more; in fact, one lot that was kept irrigated bloomed from June until frost.

Veronica Gentianoides.

For several years we had a mass of *Veronica gentianoides* in a partly shaded spot in the garden that was one of the joys of the spring season. Now that its place has been taken by other plants, I have to go to a friend's place to enjoy that lovely spring flower. But not many gardens that I visit know this speedwell. And that makes me wonder what the cause may be.

In the first place, it is one of the

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Box 3 Selbyville, Del.

Place your order now for shipment when wanted. All stock listed here can be shipped promptly upon receipt of order. Liberally graded, true-to-name, best quality stock—offered at attractive prices.

CANNAS

Carefully grown under our personal supervision, they are true-to-name, liberally graded, 2 to 5-eye, strong divisions and will please the most exacting type of customer. Our Cannas are available for delivery when wanted during the Winter and Spring months.

	Per 100	Per 1000
Allemania, Ambassador, Charles Henderson, City of Portland, Egandale, Firebird, Florence Vaughan, Golden Gate, Hungaria, Kate Grey, King Midas, Madam Crozy, Richard Wallace, Shenandoah, Venus Pink, Wintzer's Colossal, Wyoming.....	\$6.00	\$50.00
King Humbert, President, Copper Giant, Louis Cayeux, Yellow King Humbert.....	7.00	60.00

PEACH TREES

1-year Buds	Each	Per 10	Per 100	Per 1000
1-in. and up, heavily br.....	\$1.05	\$9.00		
7/8 to 1-in., 6 to 7 ft.....	.90	7.50	\$65.00	\$600.00
11/16 to 7/8-in., 5 to 6 ft.....	.75	6.00	50.00	450.00
9/16 to 11/16-in., 4 to 5 ft.....	.65	5.00	40.00	350.00
7/16 to 9/16-in., 3 to 4 ft.....	.55	4.00	30.00	250.00
5/16 to 7/16-in., 2 to 3 ft.....	.45	3.00	20.00	150.00
1/4 to 5/16-in., 2 to 3 ft.....	.40	2.50	15.00	125.00

Belle of Georgia, Brackett, Carman, Crawford's Early, Crawford's Late, Early Rose, Elberta, Gage Elberta, Goldeneast, Golden Jubilee, Greensboro, Halehaven, Heath Cling, Hiley, J. H. Hale, Krummel's Late, O'Boy, Redhaven, Rochester, Shipper's Late Red, Summercrest, Triogem, Valiant, Vedette, White Hale.

APPLE TREES

2-year Buds	Each	Per 10	Per 100	Per 1000
1 in. and up, heavily br.....	\$1.05	\$9.00	\$80.00	\$750.00
7/8 to 1-in., 6 to 7 ft.....	.90	7.50	65.00	600.00
11/16 to 7/8-in., 5 to 6 ft.....	.65	5.00	40.00	350.00
9/16 to 11/16-in., 4 to 5 ft.....	.60	4.50	35.00	300.00
7/16 to 9/16-in., 3 to 4 ft.....	.45	3.50	25.00	200.00
5/16 to 7/16-in., 2 to 3 ft.....	.40	3.00	20.00	150.00

Baldwin, Double Red Delicious, Red Gravenstein, Grimes Golden, Hyslop Crab, Double Red Jonathan, Lodi, McIntosh, Double Red McIntosh, Red Spy, Red Rome, R. I. Greening, Solid Red Delicious, Double Red Stayman, Williams Early Red, Yellow Delicious, Yellow Transparent, York Imperial.

PEAR TREES

2-year Buds	Each	Per 10	Per 100	Per 1000
11/16-in. and up, 5 to 6 ft.....	\$0.90	\$7.50	\$65.00	\$600.00
9/16 to 11/16-in., 4 to 5 ft.....	.75	6.00	50.00	450.00
7/16 to 9/16-in., 3 to 4 ft.....	.60	4.50	35.00	300.00

Bartlett, Clapp Favorite, Duchess, Kieffer, Seckel.

SOUR CHERRY

2-year Buds	Each	Per 10	Per 100	Per 1000
11/16-in. cal. and up.....	\$1.10	\$9.50	\$85.00	\$750.00
9/16 to 11/16-in. cal.....	1.00	8.50	75.00	650.00
7/16 to 9/16-in. cal.....	.90	7.50	65.00	550.00
5/16 to 7/16-in. cal.....	.80	6.50	55.00	450.00

Montmorency, May Duke, Early Richmond, English Morello.

SWEET CHERRY

2-year Buds	Each	Per 10	Per 100	Per 1000
11/16-in. cal. and up.....	\$1.25	\$11.00	\$100.00	\$900.00
9/16 to 11/16-in., 4 to 5 ft.....	1.15	10.00	90.00	800.00
7/16 to 9/16-in., 3 to 4 ft.....	1.00	8.50	75.00	650.00
5/16 to 7/16-in., 2 to 3 ft.....	.85	7.00	60.00	500.00

Black Tartarian, Governor Wood, Lambert, Napoleon, Schmidt's Bigarreau, Yellow Spanish.

ASPARAGUS ROOTS

Our Asparagus Roots have made a very good growth this season. We are the largest growers of Asparagus in the country. Write for special prices on large numbers.

MARY WASHINGTON, PARADISE

	Per 25	Per 100	Per 250	Per 1000
2-yr., No. 1.....	\$0.85	\$2.75	\$5.25	\$18.00
1-yr., No. 1.....	.65	2.25	4.00	12.00

RHUBARB ROOTS

VICTORIA, MYATT'S LINNAEUS.

	Per 25	Per 100	Per 250	Per 1000
2-in. and up, forcing grade.....	\$2.75	\$9.50	\$22.50	\$85.00
1 1/2 to 2-in. cal.....	2.00	6.50	15.00	55.00
1 to 1 1/2-in. cal.....	1.50	4.50	10.00	35.00
3/8 to 1-in. cal.....	1.25	3.50	7.50	25.00
1/2 to 3/8-in. cal.....	1.00	2.50	5.00	16.00

BERRY PLANTS

No. 1 grade

	Per 10	Per 25	Per 100	Per 1000
Thorny Boysenberry.....	\$1.00	\$2.00	\$6.00	\$40.00
Thornless Boysenberry.....	1.00	2.00	7.00	50.00
Lucretia Dewberry.....	.60	1.25	4.00	30.00
Cumberland Raspberry.....	1.00	2.00	6.00	45.00
Indian Summer Raspberry.....	1.00	2.00	7.00	60.00
Latham Raspberry.....	1.00	2.00	6.00	50.00
St. Regis Raspberry.....	1.00	2.00	6.00	50.00
Sunrise Raspberry.....	1.00	2.00	7.00	60.00
Blowers Blackberry.....	1.00	2.00	6.00	45.00
Eldorado Blackberry.....	1.00	2.00	6.00	45.00

GRAPEVINES

Our grapes have heavy, fibrous root systems, with many lengthy canes at the top. Write for prices on large numbers.

	Each	Per 10	Per 100	Per 1000
CONCORD (blue):				
2-yr., No. 1 grade.....	\$0.25	\$1.75	\$11.00	\$ 80.00
1-yr., No. 1 grade.....	.20	1.50	8.00	50.00
FREDONIA (black).				
NIAGARA (white):				
2-yr., No. 1 grade.....	.25	1.75	12.00	100.00
1-yr., No. 1 grade.....	.20	1.50	9.00	70.00
AGAWAM (red), BRIGHTON (red), CACO (red).				
CATAWBA (mahogany), MOORE'S				
DIAMOND (white), MOORE'S				
EARLY (black), WORDEN (black):				
2-yr., No. 1 grade.....	.30	2.00	15.00	120.00
1-yr., No. 1 grade.....	.25	1.75	12.00	90.00
DELAWARE (red), PORTLAND (white):				
2-yr., No. 1 grade.....	.30	2.25	18.00	150.00
1-yr., No. 1 grade.....	.25	2.00	15.00	120.00

PLUM TREES

	Each	Per 10	Per 100	Per 1000
11/16 to 7/8-in., 5 to 6 ft.....	\$0.90	\$7.50	\$65.00	\$600.00
9/16 to 11/16-in., 4 to 5 ft.....	.75	6.00	50.00	450.00
7/16 to 9/16-in., 3 to 4 ft.....	.60	4.50	35.00	300.00

Abundance, Burbank, Fellenberg, Stanley, Shropshire Damson, Red June.

FREE PACKING FOR CASH WITH ORDER. Our regular Wholesale List offers a complete line of nursery stock. If you did not receive your copy, write us today. When requesting wholesale rates, kindly use your printed stationery. If interested in large lots, please submit a list of your anticipated requirements for special consideration.

TAXUS

In Landscape Sizes

(with J. B. certificate)

TAXUS cuspidata (Spreading Yew)	Each per 100	TAXUS cusp. columnaris (Columnar Jap. Yew, dark green)	Each
15 to 18 ins., spreading.	\$ 2.25	5 to 5 1/2 feet.	\$18.00
2 to 2 1/2 ft., spreading.	4.75	5 1/2 to 6 feet.	20.00
2 1/2 to 3 ft., spreading.	6.00	6 to 7 feet.	24.00
3 to 3 1/2 ft., spreading.	8.25		
TAXUS cusp. capitata (Upright Yew)		TAXUS media hicksi (Hicks' Yew)	
2 to 2 1/2 feet.	4.00	2 to 2 1/2 feet.	3.75
2 1/2 to 3 feet.	5.25	2 1/2 to 3 feet.	4.75
3 to 3 1/2 feet.	7.00	2 1/2 to 3 feet, specimens	6.00
4 1/2 to 5 feet.	14.50	3 to 3 1/2 feet.	6.25
5 to 5 1/2 feet.	16.50	3 to 3 1/2 feet, specimens	7.25
5 1/2 to 6 feet.	19.00		
TAXUS cusp. capitata (compact specimen)		TAXUS media hatfieldi	
5 1/2 to 6 feet.	23.00	1 1/2 to 2 feet.	3.00
6 to 7 feet.	27.00	2 to 2 1/2 feet.	4.00
7 to 8 feet.	35.00	2 1/2 to 3 feet.	5.00
		2 1/2 to 3 feet, specimens	6.00
		3 to 3 1/2 feet.	7.25
TAXUS cusp. capitata (wide specimens, tightly sheared)		TAXUS cusp. nana (brevifolia)	
2 to 2 1/2 feet.	5.00	12 to 15 inches.	2.25
2 1/2 to 3 feet.	6.50	15 to 18 inches.	3.25
3 to 3 1/2 feet.	8.00	1 1/2 to 2 feet.	4.50
		2 to 2 1/2 feet.	6.25

The above prices are for truckload or carload lots only.

LINING-OUT TAXUS

(3-yr.-old transplants—best strain)

	Per 100	Per 1000
TAXUS cuspidata capitata , 12 to 18 inches.	\$60.00	\$550.00

Many other items suitable for landscape trade. Write for price list.

BULK'S NURSERIES, Inc., Babylon, L. I., N.Y.

EUONYMUS RADICANS VEGETUS FOR LINING-OUT

1-yr., 2 1/2-in. pot plants, 6 to 8 ins., tops.

Ready for shipment now or in the spring.

\$17.50 per 100 \$150.00 per 1000

F.O.B. Fairport, N. Y.

JAMES I. GEORGE & SON

FAIRPORT, N. Y.

THE RHODE ISLAND NURSERIES

NEWPORT, R. I.

Acer palmatum atropurpureum, 3-yr. transplants, 6 to 12 ins.

Viburnum opulus, 2-yr. transplants, 6 to 12 ins.

Myrica carolinensis, 2-yr. transplants, 3 to 6 ins.

Write for samples and prices.

J & P

**EVERGREENS
SHADE TREES**

**SHRUBS, VINES
HEDGE PLANTS, etc.**

In good assortment.

Jackson & Perkins Co.
NEWARK, NEW YORK STATE

earliest of the speedwells to come into flower, usually blooming at this latitude of 45 degrees by late April and by mid-April at the southern end of Lake Michigan. Although the floras tell us it is a native of wet alpine meadows in southern Europe, it was not only perfectly hardy here, but contented itself in quite dry soil and in shade, the latter making it possible to grow it in drier situations than is possible in full sun. It is a good plant for lean rock garden soil, where it may remain as low as six or eight inches and may then need attention from the hose in dry weather. It is also excellent for the rich soil of the border among other spring-flowering plants, where it may grow nearly two feet in height, or for almost any spot in the garden where its pale blue flowers are wanted. There is also a white-flowered form, less effective in my sight than the type. Several other varieties, including one with variegated foliage, are mentioned in the literature, though one seldom finds them offered in this country. The type is easily grown from seeds, and all are readily increased by division.

Genista Villarsi.

While going over my notes of 1929, I recently found one on Genista villarsi which reminded me that the stock market was not the only crash of that year, for it was then that I lost my lone plant of that species, one that I had labored over for several years only to lose during a cold snowless period. It is, I think, the smallest of the brooms, growing two or three inches tall and creeping conservatively. It is one of the loveliest of the species as well, with golden-yellow flowers over gray leaves.

G. villarsi is a good and easy plant to grow where hardy, one, I suspect, that would be an excellent item for the neighborhood grower because it would surely sell on sight. There would be little competition, for it is not listed in this country so far as I know. It is quite easy to grow from seeds sown in spring, and these are usually available in Europe. It may also be grown from green wood cuttings under glass in summer. Where hardy, it should become popular among amateur gardeners, for it is a most unexacting plant, asking only for a dry sunny spot, and is an excellent wall ornament.

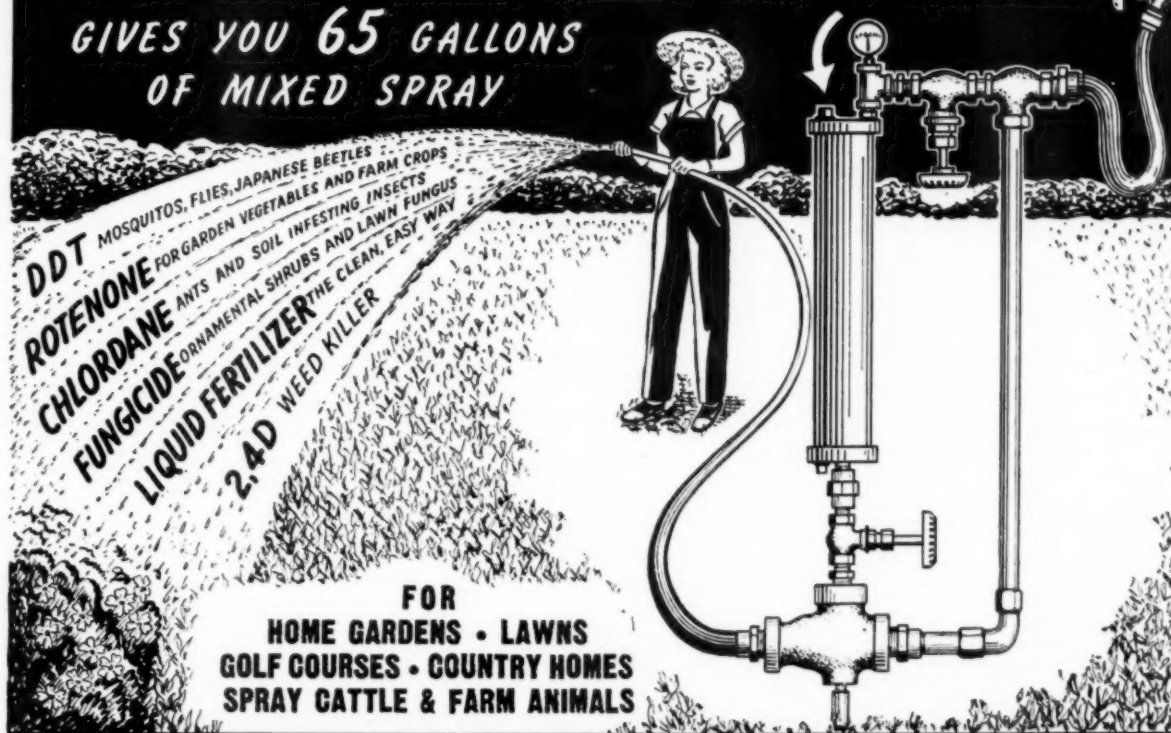
Saxifraga Cordifolia.

A recent letter of approval from a landscape architect for whom I worked out a planting list three years ago prompts me to say a few words

[Continued on page 61.]

HOZZER CIDE SPRAYS

1 QT. CONCENTRATED HOZZER CIDE IN CYLINDER
GIVES YOU 65 GALLONS
OF MIXED SPRAY



BUGHOZZER

OPERATES ON REGULAR HOUSE WATER PRESSURE

An applicator for insecticides, fungicides, weed killers and liquid fertilizers. Operates from water pressure from ordinary hose connection.

Offers easiest way in the world to apply crab-grass killer.

Operating time is from 14 to 36 minutes, depending upon the amount of pressure used.

One quart of concentrate "HOZZER CIDE" sufficient to spray up to a half acre.

Complete instructions given on labels of spray material holders.

Apparatus weighs only eleven pounds, and may be installed in approximately two minutes. Simply drive stake into ground near water outlet, place the BUGHOZZER on stake, connect its hose to spigot and fasten garden hose to bottom. When cylinder is filled with toxicant, the concentrate is mixed properly with flowing water.

Many, many BUGHOZZER and HOZZER CIDE users and dealers are nurserymen.

ACCURATE TOOL CO.

(Insecticide Section)

15 Manufacturers Place

Newark 5, N. J.

DEALER AND SALES REPRESENTATIVES WRITE FOR INFORMATION

Coming Events

MEETING CALENDAR.

March 2 and 3, Canadian Association of Nurserymen, Royal York hotel, Toronto, Ont.

March 7, Western Pennsylvania Nurserymen's Association, Webster Hall hotel, Pittsburgh.

March 23 to 25, Southern chapter of the National Shade Tree Conference, Hotel Cape Fear, Wilmington, N. C.

March 30 and 31, Holly Society of America, University of Maryland, College Park.

CANADIAN PROGRAM.

The twenty-seventh annual meeting of the Canadian Association of Nurserymen, to be held March 2 and 3 at Royal York hotel, Toronto, will be called to order Thursday at 10 a. m. by President Spencer McConnell, McConnell Nursery Co., Port Burwell, Ont., for a business session of voting members only.

Annual reports by the president and the secretary-treasurer will be given, followed by the chairmen's reports on the following standing committees: Tariff, William Haist; trade practices, S. C. Wellington; highway planting, J. Connon; research, J. V. Stensson; finance, W. B. Wellington; membership, W. A. Hogle; plant patents, H. M. Eddie, and standards for tree fruit and nursery stock, A. B. Luke.

The open business session at 2 p. m. will begin with a discussion on "General Nursery Problems," by Dr. L. C. Chadwick, department of horticulture, Ohio State University. "Your Public Relations I. Q." will be the topic of the next speaker, Lee Trenholme, president of the Association of Canadian Advertisers. W. N. Keenan, chief of the plant protection division, will speak on "Some Observations upon the European Nursery Industry," and the program will be concluded by James I. E. Ilgenfritz, president of the American Association of Nurserymen, who will speak to the Canadians about his association. The annual banquet will be held that evening.

Dr. Chadwick's topic for a second talk on Friday will be "Propagation" and will be followed by a discussion of "Nursery Work at the Ontario Agricultural College," led by Dr. J. S. Shoemaker, head of the horticulture department there. Presenting various phases of this topic will be E. W. Franklin, who will tell about the waxing of ornamentals; O. A. Bradt, Vineland experiment station, who will speak on "New Hybrid

French Grapes"; J. C. Taylor, "New Developments with Lilies," and John Weall, "Landscape Gardeners' Relations with Nurserymen." After M. B. Davis, Dominion horticulturist of the department of agriculture, presents his address on "Nursery Work at the Dominion Experimental Farms," a panel discussion will conclude the meeting.

The last session will feature an illustrated talk on "Landscaping" by John Weall, department of horticulture, Ontario Agricultural College, and a talk on "Advertising and Merchandising" by C. J. Laurin, the president of the Magazine Publishers' Association.

SOUTHERN TREE PROGRAM.

The tenth annual meeting of the Southern chapter of the National Shade Tree Conference, to be held March 23 to 25, at Hotel Cape Fear, Wilmington, N. C., is expected to coincide with the blooming time of the azaleas and rhododendrons for which this section of the country is famous.

Along with the speeches scheduled for the 3-day meeting, a field demonstration of equipment will be held at the city park Friday afternoon. That evening at the annual banquet the guest speaker will be Dr. R. J. Preston, director of the forestry division at North Carolina State College.

Saturday morning has been set aside for the business meeting, which will be followed by a tree pest clinic, with Dr. Marvin E. Fowler, of the forest pathology division of the United States Department of Agriculture, as chairman. The afternoon session has been left open for visits to places of interest around Wilmington.

The schedule of speeches for the entire meeting is as follows: "Why I Do Business in the Carolinas," by Norman Armstrong, arborist, White Plains, N. Y.; "The Small Operator in the Tree Business," by Cam B. Comer, arborist, Greensboro, N. C.; "Diseases of Magnolia," by Marvin E. Fowler, forest pathologist, United States Department of Agriculture, Washington, D. C.; "Tree Planting and Pruning Hints," by H. C. Scott, landscape contractor, Chattanooga, Tenn.; "Many Tree Insects Now Controllable," by Charles A. Speers, forest entomologist, United States

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for a large, long-established midwestern nursery growing a general line of stock exclusively for wholesale. Large acreage. Most modern facilities, equipment and machinery. Very strong financial position. Applicant should be 35 to 50 years old, thoroughly trained, well experienced and capable of effectively organizing work and efficiently directing operations of more than 100 men. Please give complete information in first letter, including age, training, experience, family, present employer, salary expected, etc.

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TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

VERKADE'S NURSERIES

NEW LONDON, CONN.

TRACTOR X-RAY



shows 4 big features of **POWERLINE** design

1. Clearance
2. Stability
3. Vision
4. Pulling Power

There is more beneath the streamlined surface of this tractor than first meets the eye.

The Allis-Chalmers Model C offers a different kind of nursery power, through the clean simplicity of Powerline Design.

Note how the tubular Powerline eliminates the tractor frame. You SEE clearly . . . on both sides of the tractor. There's less dead weight . . . more active power . . . more real pull.

Again, see the smooth flow of power through the raised rear axle and offset final drive. Weight of both transmission and differential is concentrated over the sturdy, low-set drive wheels. This, plus non-freezing liquid ballast in the rear tires, gives added traction. You'll like the Model C's safe, hug-the-ground stability and high clearance.

Powerline Design is available in both the Models B and C Tractors, both with the big, husky, 125-cubic-inch engine and Quick-Hitch hydraulic implements.

Here is compact nursery power at a price you will appreciate. Your Allis-Chalmers dealer will gladly arrange a demonstration.



Model C Tractor with Hydraulic Action Cultivator. Note rear axle clearance — an ample 23 1/4 inches.



Model B Tractor with Hydraulic Action Cultivator. Tubular Powerline Design permits easy vision for careful work.

ALLIS-CHALMERS
TRACTOR DIVISION • MILWAUKEE 1, U. S. A.

EVERGREEN LINERS

CONIFERS

All plants in 2 1/4-in. pots.

	Per 100	Per 1000
ARBORVITAE		
American Compacta	\$20.00	\$175.00
Elegantissima	20.00	175.00
Globosa	20.00	175.00
Lutea (Geo. Peabody)	20.00	175.00
Pyramidalis	20.00	175.00
CHAMAECYPARIS (Retinospora)		
Pisifera Filifera	17.50	150.00
Pisifera Plumosa	17.50	150.00
Pisifera Plumosa Aurea	17.50	150.00
Pisifera Crippsi	17.50	150.00
CUNNINGHAMIA		
Lanceolata Glauca	20.00	175.00
HEMLOCK, 1 1/2 yrs. in		
pots, ready for field	25.00	200.00
JUNIPERUS		
Conferata (Litoralis)	17.50	150.00
Excelsa Stricta	20.00	175.00
Kiyonoi	17.50	150.00
Meyeri	17.50	150.00
Pfitzeriana	20.00	175.00
Sylvestris	20.00	175.00

AZALEAS

For Spring Delivery.

2 1/4-in. pots—\$150.00 per 1000

Hinomayo	Purple King
Snow	Firefly
Ledifolia Alba	Kaempferi
Poukhanensis	Lady Lilac

Special, 10c ea.

12,000 Coral Bells, extra-heavy
15,000 Hinodegiri



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SUBJECT TO
'STOCK BEING
UNSOLD.

GRESHAM'S NURSERY

R. F. D. NO. 9

BROAD-LEAVED EVERGREENS

All plants in 2 1/4-in. pots.

	Per 100	Per 1000
BERBERIS		
Julianae	\$17.50	\$150.00
COTONEASTER		
Francheti	17.50	150.00
Repens	17.50	150.00
Salicifolia	17.50	150.00
ELAEAGNUS		
Pungens	17.50	150.00
EUONYMUS		
Patens	15.00	125.00
Coloratus	12.50	100.00
ILEX		
Cassine	17.50	150.00
Convexa Bullata	17.50	150.00
Cornuta Burfordi	20.00	175.00
Crenata Microphylla	17.50	150.00
Crenata Rotundifolia	17.50	150.00
Crenata Helleri	20.00	175.00
Glabra	17.50	150.00
Opaca (cuttings from choice heavy berry- bearing plants)	27.50	250.00
LIGUSTRUM Lucidum	17.50	150.00
OSMANTHUS		
Aquifolium	17.50	150.00
Fortunei	17.50	150.00
PHOTINIA Serrulata	17.50	150.00
PYRACANTHA		
Crenato-serrata	17.50	150.00
Lalandi	17.50	150.00
Gibbsii	17.50	150.00
VIBURNUM		
Rhytidophyllum	20.00	175.00
CYDONIA		
Japonica Alba	17.50	150.00

300 of one variety at 1000 rate.

SAMPLES ON REQUEST.

RICHMOND 24, VA.

Department of Agriculture, Asheville, N. C.; "Oak Wilt, a New and Dangerous Threat," by Lee M. Hutchins, forest pathologist, United States Department of Agriculture, Washington, D. C.

"The Large Operator and the Southern Shade Tree Conference," by Orville Spicer, F. A. Bartlett Tree Expert Co., Stamford, Conn.; "Basic Tree Ailments Augmented by Girdling Roots," by H. M. Van Wormer, Van Wormer Tree Service Co., Richmond, Va.; "Recent Chemotherapy Developments for Combating Dutch Elm Disease," by Nestor Caroselli, Bartlett Tree Research Laboratories, Stamford, Conn.; "Shade Trees for the Middle-Atlantic and Southern States," by J. B. Brouers, landscape superintendent, Williamsburg, Va., and "Relations of Environment and Physiology to Tree Growth," by Paul J. Kramer, Duke University, Durham, N. C.

A special program for the ladies has been arranged by H. O. Drennan and his committee.

WESTERN PENNSYLVANIA SPRING MEETING.

The Western Pennsylvania Nurserymen's Association will hold its spring meeting March 7 at Webster Hall hotel, Pittsburgh, Secretary Louis E. Wissenbach has announced.

First on the day's program, which will be called to order at 3 p. m., will be Dr. J. Franklin Styer, Styer's Nurseries, Concordville, who will discuss "Business Practices in the Landscape Field." Edgar J. Udine, extension entomologist, Pennsylvania State College, will give an illustrated talk on "Insects." The group will also hear reports on the recent Pennsylvania Nurserymen's Association meeting, the Ohio short course and the Pennsylvania nurserymen's conference. Dinner will be served at 6:30 p. m.

HOLLY SOCIETY DATES.

The Holly Society of America will meet March 30 and 31 at the University of Maryland, College Park.

LONG ISLAND SHOW.

The Long Island Nurserymen's Association will hold its annual spring garden show at the Garden City hotel, Garden City, N. Y., March 9 and 10 from 1:30 p. m. to 9:30 p. m.

Space for twenty-three exhibits has been planned, as well as a program to be held in the ballroom, according

EXTRA-HEAVY SPECIMEN EVERGREENS

Each
per 100

<i>Taxus browni</i> , 15 to 18 ins.	\$2.75
<i>Taxus browni</i> , 18 to 24 ins.	3.75
<i>Taxus hicksi</i> , 18 to 24 ins.	3.00
<i>Taxus hicksi</i> , 24 to 30 ins.	4.00

We are proud to grow evergreens you can sell with pride. Cash, please.

THORNTON NURSERIES
CONNEAUT LAKE, PA.

PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations

LESTER C. LOVETT
MILFORD DELAWARE

Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List

W. - T. Smith Corporation
Telephone 2689 GENEVA, N. Y.

CANADA HEMLOCK

Heavy, twice-transplanted (bare-root) liners. Shipping point, Terre Haute, Ind.

	100 rate each	1000 rate each
<i>Tsuga Canadensis</i>		
1200 TT, 10 to 12 ins.	\$0.35	\$0.30
1250 TT, 12 to 18 ins.45	.40
1100 TT, 18 to 24 ins.65	.60

Usual terms.

E. D. ROBINSON SALES AGENCY
WALLINGFORD, CONN.

POTTED LINERS

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HEASLEY'S NURSERIES
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LINERS

Ask for list.

BROUWER'S NURSERIES
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BRIDGMAN, MICHIGAN Telephone 22

SMALL FRUITS

These prices cancel all previous lists and are subject to change without notice. 250 or over at 1000 rate. Boxing at cost. All prices F.O.B. Bridgman. Usual terms.

PACKAGED STRAWBERRY PLANTS

We have developed a new package for over-the-counter trade. Plants are individually set in moss and rolled into a neat package that will stand up for 7 to 10 days under the most adverse conditions. Will stand up well for 2 to 3 weeks under normal sales-lot conditions. Can be watered if necessary.

Packaged with brightly colored labels with full planting instructions on back of label.

Ask for a sample package.

Prices per Package of 20 Plants

	Per package
Dunlap	\$.40
Premier	.50
Robinson	.50
Gem (Everbearing)	.50
Brunes Marvel (Everbearing)	.50
Superfection (Everbearing)	.60
Streamliner (Everbearing)	.60

Shipped in special cartons containing 35 to 50 packages, depending on variety. Shipping weight about 1 1/4 pounds per package.

STRAWBERRY PLANTS

Fresh-dug Strawberry plants, tied 25 to the bunch.

	Per 100	Per 1000
Premier	\$1.60	\$11.00
Robinson	1.50	10.00
Dunlap	1.30	8.00
Temple	1.70	12.00
Fairland	1.70	12.00
Brunes Marvel (Everbearing)	1.70	12.00
Superfection (Everbearing)	3.00	25.00
Streamliner (Everbearing)	2.20	18.00
Gem (Everbearing)	1.90	14.00

250 at 1000 rate

Write for special quotations on quantity lots.

GRAPES

	Per 100	Per 1000
Concord, 2-l	\$10.00	\$ 80.00
Concord, 1-l	8.00	60.00
Niagara, 2-l	11.00	90.00
Niagara, 1-l	9.00	70.00
Catawba, 2-l	11.00	90.00
Catawba, 1-l	9.00	70.00
Fredonia, 2-l	11.00	90.00
Fredonia, 1-l	9.00	70.00
Delaware, 2-l	14.00	120.00
Delaware, 1-l	11.00	90.00
Van Buren, 2-l	25.00	200.00
Van Buren, 1-l	15.00	125.00
Caco, 1-l	10.00	
Sheridan, 2-l	16.00	
Sheridan, 1-l	12.00	
Golden Muscat, 2-l	25.00	
Golden Muscat, 1-l	15.00	
Seneca, 2-l	35.00	
Seneca, 1-l	25.00	

250 at 1000 rate

BLACKBERRIES

	Per 100	Per 1000
Eldorado, transplants	\$6.50	\$55.00
No. 1, root cuttings	5.00	40.00
1-yr., med., root cuttings	3.50	25.00
Alfred, transplants	6.50	55.00
No. 1, root cuttings	5.00	40.00
1-yr., med., root cuttings	3.50	25.00
Early Harvest, transplants	7.00	60.00
No. 1, root cuttings	5.00	40.00

CURRENTS

	Per 100	Per 1000
Wilder, 3-yr., heavy	\$15.00	\$130.00
Wilder, 2-yr., No. 1	12.00	100.00
Wilder, 1-yr., No. 1	7.00	60.00
Red Lake, 2-yr., No. 1	16.00	
Red Lake, 1-yr., No. 1	12.00	

GOOSEBERRIES

	Per 100	Per 1000
Downing, 2-yr., No. 1	\$25.00	
Houghton, 2-yr., No. 1	25.00	
Champion, 2-yr., No. 1	25.00	

RED RASPBERRIES

	Per 100	Per 1000
Latham, transplants	\$7.50	\$62.50
Latham, 1-yr., No. 1	6.00	47.50
Chief, transplants	7.00	60.00
Chief, 1-yr., No. 1	5.50	45.00
Sunrise, transplants	7.00	60.00
Sunrise, 1-yr., No. 1	5.50	45.00
Indian Summer, transplants	8.00	70.00
Indian Summer, 1-yr., No. 1	6.50	55.00
St. Regis, transplants	7.00	60.00
St. Regis, 1-yr., No. 1	5.50	45.00

PURPLE RASPBERRIES

	Per 100	Per 1000
Sodus, No. 1, tips	\$5.50	\$45.00

BLACK RASPBERRIES

	Per 100	Per 1000
Cumberland, transplants, No. 1	\$8.00	\$70.00
transplants, No. 2	6.50	55.00
tips, No. 1	4.50	35.00
Logan, transplants, No. 1	8.00	70.00
transplants, No. 2	6.50	55.00
tips, No. 1	4.50	35.00
Morrison, transplants, No. 1	9.00	80.00
transplants, No. 2	7.50	65.00
tips, No. 1	5.00	40.00

BOYSENBERRIES and DEWBERRIES

	Per 100	Per 1000
Boysenberry (Common), No. 1, tips	\$5.00	\$40.00
Boysenberry (Thornless), No. 1, tips	5.50	45.00
Lucretia Dewberry, No. 1, tips	5.00	40.00

BLUEBERRIES

	Rubel (Early)	Rubel (Midseason)	Jersey (Late)
	Per	Per	Per
	Each	10	100
2-yr., 9 to 12 ins.	\$0.40	\$3.50	\$32.50
3-yr., 12 to 18 ins.	.55	5.00	47.50
4-yr., 18 to 24 ins.	.75	7.00	67.50
5-yr., 24 to 36 ins.	1.00	9.50	

ASPARAGUS

	Per 100	Per 1000
Paradise and Washington 3-yr., heavy	\$4.00	\$30.00
2-yr., No. 1	2.30	18.00
1-yr., No. 1	1.70	12.00
1-yr., in 10,000 lots		10.00

VICTORIA RHUBARB

	Per 100	Per 1000
1 1/2-in. and up, whole roots	\$8.00	\$75.00
1 to 1 1/2-in., whole roots	5.50	50.00
3/4 to 1-in., whole roots	4.00	35.00
1/2 to 3/4-in., whole roots	3.00	25.00

RED RHUBARB

	Per 100	Per 1000
Canada Red, No. 1, divisions	\$40.00	\$350.00
MacDonald, No. 1, divisions	30.00	250.00

HORSE-RADISH

	Per 100	Per 1000
Cuttings, 4 to 5 ins.	\$2.00	
Whole roots	4.50	

PENNSYLVANIA SEEDLINGS and TRANSPLANTS

grown at High Altitude, in the heart of the
ORIGINAL PENNSYLVANIA PINE FORESTS

	Per 100	Per 1000
American Red Pine, 2-0, 2 to 4 ins.....	\$4.00	\$30.00
American Red Pine, extra-good, 3-0, 4 to 8 ins.....	5.00	40.00
Scotch Pine, 2-0, 2 to 4 ins.....	2.00	15.00
Scotch Pine, very good, 2-yr., 4 to 6 ins.....	3.00	25.00
Scotch Pine, extra-good, 3-yr., 6 to 8 ins.....	3.50	30.00
Scotch Pine, extra-good, 3-yr., 8 to 12 ins.....	4.00	35.00
Larch, 2-yr., 5 to 8 ins.....	2.50	20.00
Pitch Pine (Adirondack), 2-yr., 5 to 8 ins.....	2.00	15.00
Mugho Pine, 2-yr., spreading.....	2.50	20.00
Mugho Pine, 3-yr., spreading.....	3.50	30.00

All stock offered subject to prior sale. Five per cent discount on orders of 25,000 or more seedlings, one or more species.

EXCELLENT ROOT SYSTEMS STURDY PLANTS

500 at 1000 rate. No charge for packing or boxing when cash accompanies order; otherwise, one-half cash with order, balance C.O.D.

SCHROTH'S NURSERY

Nursery: Pine Flats, Pa.

INDIANA, PA.

TAXUS CAPITATA

Heavy plants, 4 to 4½ ft., will be sold only in truckload or carload lot, subject to your selection at nursery.

Private railroad sidetrack in nursery.

GLENMONT NURSERIES

Arthur M. Reed

STATE RT. 2, SOUTH
MOUNDSVILLE, W. VA.

SEEDLINGS

Scotch Pine, 6 to 18 ins..... \$35.00
Red Pine, 4 to 8 ins..... 35.00

F. C. GEBHARDT

140 E. 29th St. ERIE, PA.

CHINESE, ENGLISH and AMERICAN

HOLLY

22 English varieties.
Hardy, named stock.
Send for FREE CATALOG.

The WILMAT HOLLY CO.

Box 304-F NARBERTH, PA.

QUALITY LINERS

Red-Flg. Dogwood Per 100
10 to 15 ins. grafts..... \$60.00
Franklin Tree (Franklinia)
8 to 12 ins., 2-yr..... 25.00
Red-Flg. Magnolia (M. soul. nigra)
8 to 15 ins..... 75.00

Send for new Spring List.

POSSUM HOLLOW NURSERIES

6327 Magnolia St.
PHILADELPHIA 44, PA.

EVERGREENS

Seedlings and Transplants

Spring, 1950

Write for price list.

SUNCREST EVERGREEN NURSERIES

JOHNSTOWN, PA.

PACHYSANDRA

The ideal permanent ground cover plant for shady areas in all climates. Strong, well rooted 1-yr.-old plants, \$3.75 per 100; \$35.00 per 1000; 5000 or more at \$32.50. Available March through November.

PEEKSKILL NURSERY SHRUB OAK, N. Y.

to chairman of the committee in charge, Charles R. Mouquin, Eugene Henri Mouquin, Inc., Glen Head.

MICHIGAN SEMINARS.

It has been the practice for several years to invite nurserymen to address the students of the nursery and landscape management course at Michigan State College. These meetings are held each Thursday afternoon from 4 to 6 in room 207 of the Horticulture building. All nurserymen and other interested persons are invited to attend these meetings and participate in the discussion. The last meeting for the season will be held March 9. Speakers for the present semester include Harold Hicks, Cottage Gardens, Lansing; Manley Webb, Webb Nursery Co., Flint; Frank Leffler, Michigan bureau of plant industry; James I.E. Ilgenfritz, Ilgenfritz Nurseries, Inc., Monroe, and Arthur D. Slavin, nursery division, Soil Conservation Service.

DETROIT SHOW PLANS.

The Nursery and Landscape Forum, which is composed of students interested in the nursery field at Michigan State College, is assiduously working on plans for exhibiting a 1,000 square foot garden at the Detroit garden and flower show. Rare plants will be a feature of this garden. The student cochairmen, John Venman and Edward Koch, have secured some trees of the Moraine honey locust from the Siebenthaler Co., Dayton, O., and are planning to force these into new growth previous to the start of the show. Other features of this garden include proper means of laying turf and the correct use of evergreen ground covers.

CAMELLIA CONFERENCE PLANNED AT LONDON.

The council of the Royal Horticultural Society of Great Britain will hold a camellia and magnolia conference April 4 and 5 in conjunction with the society's show, which includes competitive classes and exhibits of camellias and magnolias. This will follow a 6-day tour, March 25 to 30, of Cornish gardens and the excursions to gardens in the London area scheduled for March 31 to April 1.

One of the outstanding speakers of the conference will be Dr. H. Harold Hume, president emeritus of the American Camellia Society, whose subject will be "Forms of Camellia Japonica."

Headquarters for the tour will be



NORTHERN GROWN PLANTS

FRUIT TREES • SMALL FRUITS • SHRUBS • ROSES • ORNAMENTALS

APPLE — PEAR — PLUM

Write for Prices

PEACH

	Per 10	Per 100
11/16-in.	\$3.50	\$30.00
9/16-in. (2-yr.)	3.00	25.00
7/16-in.	2.50	20.00
11/16-in.	9/16-in.	7/16-in.
Elberta	X	X
Golden Jubilee	X	X
Hale Haven	X	X
Marquette	X	X
Polly Peach	X	X

RED RASPBERRIES

	Per 100	Per 1000
Chief	\$7.00	\$60.00
Transplants	6.50	55.00
1/4-in. cal. and up.	5.50	45.00
No. 1, 3/16-in.		
Indian Summer	8.00	70.00
Transplants	7.50	65.00
1/4-in. cal. and up.	6.50	55.00
No. 1, 3/16-in.		
Latham	7.50	65.00
Transplants	7.00	60.00
1/4-in. cal. and up.	6.00	50.00
No. 1, 3/16-in.		
Sunrise	7.00	65.00
Transplants	6.50	55.00
1/4-in. cal. and up.	5.50	45.00
No. 1, 3/16-in.		

BLACK RASPBERRIES

	Per 100	Per 1000
Cumberland	\$8.00	\$70.00
Transplants	4.50	35.00
No. 1, tips		
New Logan	4.50	35.00
No. 1, tips		
Morrison	9.00	80.00
Transplants		

BLACKBERRIES—BOYSENBERRIES

	Per 100	Per 1000
Alfred, No. 1, R.C.	\$5.00	\$40.00
Blower, No. 1, R.C.	5.00	40.00
Eldorado, No. 1, R.C.	5.00	40.00
Boysenberry, Thornless,		
No. 1, tips	5.50	45.00
Youngberry, No. 1, tips	5.50	45.00

GRAPES

	Per 10	Per 100	Per 1000
Concord	\$1.50	\$12.00	\$100.00
2-yr., No. 1	1.20	10.00	80.00
1-yr., No. 1			
Delaware	1.60	14.00	120.00
2-yr., No. 1	1.30	11.00	90.00
1-yr., No. 1			
Niagara	1.00	8.00	70.00
2-yr., No. 1	1.40	12.00	110.00
1-yr., No. 1			

GOOSEBERRIES

	Per 10	Per 100
Carrie		
2-yr., No. 1	\$2.50	\$20.00
1-yr., No. 1	2.00	15.00
Houghton		
2-yr., No. 1	2.50	20.00
1-yr., No. 1	2.00	15.00

CURRANTS

	Per 100	Per 1000
Cascade	\$20.00	\$180.00
2-yr., No. 1	18.00	140.00
1-yr., No. 1		
Red Lake		
3-yr., No. 1	18.00	160.00
2-yr., No. 1	16.00	140.00
1-yr., No. 1	12.00	100.00

FRUIT TREE STOCKS

APPLE SEEDLINGS, grown on new land from seeds of Northern varieties.

	Per 100	Per 1000
No. 2, 2/16 to 3/16-in.	\$2.00	\$18.00

FOREST TREE SEEDLINGS

	Per 100	Per 1000
Ash, Green		
2 to 3 ft.	\$3.00	\$25.00
18 to 24 ins.	2.20	18.00
12 to 18 ins.	1.80	15.00
Elm, American		
4 to 5 ft.	5.50	50.00
3 to 4 ft.	4.50	35.00
2 to 3 ft.	3.50	25.00
18 to 24 ins.	2.50	20.00
12 to 18 ins.	1.40	12.00
Maple, Soft		
2 to 3 ft.	4.50	40.00
Poplar, Norway		
4 to 5 ft.	8.00	70.00
3 to 4 ft.	6.00	50.00
2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.00	25.00
12 to 18 ins.	2.00	18.00
Russian Olive		
12 to 18 ins.	3.20	25.00
6 to 12 ins.	1.80	12.00

DECIDUOUS TREES

	Per 10	Per 100
Almey Flowering Crab	\$12.50	\$110.00
5 to 6 ft.		
Poplar, Bolleana		
6 to 8 ft.	9.50	85.00
6 to 8 ft. whips	6.50	60.00
5 to 6 ft. whips	4.50	40.00
Willow, Niobe Weeping		
8 to 10 ft.	12.00	100.00
6 to 8 ft.	8.50	80.00
5 to 6 ft.	6.50	60.00

SHRUBS

	Per 10	Per 100
Almond, Pink-flowering		
2 to 3 ft.	\$4.50	\$40.00
18 to 24 ins.	3.50	30.00
12 to 18 ins.	3.00	25.00
Almond, White-flowering		
3 to 4 ft.	4.50	40.00
2 to 3 ft.	3.50	30.00
18 to 24 ins.	2.50	20.00
Amelanchier (Juneberry)		
2 to 3 ft.		
(250.00 per 1000)	4.00	35.00
18 to 24 ins.	3.50	30.00
12 to 18 ins.	2.50	18.00
Cranberry, Highbush		
2 to 3 ft.	4.50	40.00
18 to 24 ins.	2.80	25.00
12 to 18 ins.	2.50	22.00
Elder, Golden		
4 to 5 ft.	4.50	35.00
3 to 4 ft.	4.00	30.00
2 to 3 ft.	3.00	25.00
Honeysuckle, Zabeli		
4 to 5 ft.	4.50	40.00
3 to 4 ft.	4.00	35.00
Lilac, Rothomagensis, Rubra		
2 to 3 ft.	4.50	40.00
18 to 24 ins.	3.50	30.00
Mock Orange, Coronarius		
3 to 4 ft.	4.20	35.00
2 to 3 ft.	3.00	25.00
18 to 24 ins.	2.50	22.00
Potentilla Fruticosa		
18 to 24 ins.	4.00	35.00
12 to 18 ins.	2.80	25.00
Prunus Cistena		
2 to 3 ft.	6.00	55.00
18 to 24 ins.	4.50	40.00
12 to 18 ins.	4.00	30.00
Prunus Triloba		
2 to 3 ft.	6.50	
18 to 24 ins.	5.50	45.00
12 to 18 ins.	4.50	35.00
Spiraea Macrothyrsa		
2 to 3 ft.	3.00	25.00
18 to 24 ins.	2.50	20.00
Spiraea Vanhouttei		
2 to 3 ft.	2.50	22.00
18 to 24 ins.	1.90	16.00
VINES		
Bittersweet		
2-yr., No. 1	\$2.50	\$20.00
2-yr., med.	1.75	15.00
Ivy, Engelmann		
2-yr., No. 1	2.00	15.00
2-yr., med.	1.75	12.00



Andrews

NURSERY
COMPANY

FARIBAULT

MINNESOTA

FRUITS

APPLE

	Each	Per 10	Per 100
2 and 3-yr., 1 1/16-in., 5 to 7 ft.	\$0.60	\$4.50	\$35.00
2-yr., 9/16-in., 4 to 6 ft.	.50	4.00	30.00
2-yr., 7/16-in., 3 to 4 ft.	.40	3.00	25.00
2-yr., 3/4 to 1-in. cal.	.75	6.00	50.00

Anoka
Bonum
Close
Cortland
Delicious
Double Red Delicious
Double Red McIntosh
Double Red Spy
Double Red Stayman

Early Harvest
Early Red Bird
Hyslop Crab
Lodi
Lowry
M. B. Twig
Maiden Blush
N. W. Greening

Paragon Winesap
Stayman
Summer Yellow Delicious
Turley
Winesap
Winter Banana
Yellow Transparent
York Imperial
YORKING, U. S. Patent No. 125

PEACH

	Each	Per 10	Per 100
7/16-in., 3 to 4 ft.	\$0.45	\$3.50	\$27.50
9/16-in., 4 to 6 ft.	.60	4.50	35.00
Golden Jubilee	Redhaven		
Halehaven	Shipper's Red		
Late Elberta			

LARGE MONTMORENCY CHERRY

	Each	Per 10	Per 100
3/4 to 1-in. cal.	\$1.25	\$11.00	\$100.00
1 to 1 1/2-in. cal.	1.50	12.50	110.00

STRAWBERRIES

	Per 100	Per 1000
Blakemore	\$1.00	\$ 8.00
New Robinson	1.25	10.00
New Superfection Evbg.	3.25	25.00
Streamliner Everbearing	3.00	22.50

PLUM

	Each	Per 10
Jumbo-size, 1 to 1 1/2-in. cal., 7 to 8 ft.	\$1.75	\$16.00
Abundance, Burbank, Wickson		

APPLE GRAFT WOOD

In following varieties at \$1.00 for enough wood for 100 Grafts; \$8.50 per 1000 when furnished in lots of not less than 250 of any one variety:

Delicious
Double Red Jonathan
Double Red Rome
Double Red Stayman
Early Harvest
Early Red Bird

Grimes Golden
Lodi
Lowry
Maiden Blush
M. B. Twig
Rome Beauty
Smokehouse

Stayman
Turley
Winesap
Winter Banana
Yellow Transparent
York Imperial

WAYNESBORO NURSERIES WAYNESBORO, VIRGINIA

ROSA MULTIFLORA

3 to 4 mm., \$15.00 per 1000.

Liberal grading. Ideal size for late budding this summer. Sample upon request.

BOBBINK & ATKINS
EAST RUTHERFORD, N. J.

Old English BOXWOOD

(Wholesale Only)

SELLING OUT. Specimens 20 x 16 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

BOXWOOD GARDENS

Mrs. R. P. Royer

High Point, N. C.

SHEPARD NURSERIES

Growers and Distributors of
ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.
60 acres growing. Skaneateles, N. Y.

THUJA OCCIDENTALIS COMPACTA ERECTA

(NEW)

We offer this new variety in rooted cuttings; also established stock from 2 1/4-in. pots.

Write for descriptive folder in color.

THE WESTMINSTER NURSERIES
WESTMINSTER, MD.

CHINESE CHESTNUT TREES

Blight-resistant.

TREES—TRANSPLANTS—LINERS

THE GOLD CHESTNUT NURSERY

Cowen, W. Va.

BURR

Leading wholesale source for
Nursery Stock

Send us your Want List.

C. R. BURR & CO., INC.
Manchester, Conn.

at Falmouth, from which bus tours are scheduled to take in various gardens and a flower show at Truro.

Excursions to gardens in the vicinity of London have been planned for the days of the conference, including visits to the Royal Horticultural Society's gardens at Wisley and the Royal Botanic Gardens at Kew.

OAKLAND GARDEN SHOW.

"Pacifica" will be the theme for this year's California spring garden show at Oakland, which will run April 20 through 28, according to the director of publicity, Mrs. Glen Frates. Ned Rucker is manager and designer of the show.

PLAN GARDEN WEEK.

John S. Ames, president of the Massachusetts Horticultural Society, recently announced that, due to popular demand, Garden week will be repeated this year from May 21 to 27. Miss Mary May Binney, chairman of the Garden week committee, has arranged to open successively many of the most beautiful gardens and houses in Massachusetts, from North Easton in the south to Newburyport in the north. Included are houses and gardens at Milton, Chestnut Hill, Wellesley, Dover, Hamilton, Beverly and Ipswich, all of which are privately owned and have seldom been opened to the public before.

ROSE GROWERS' DAY.

The annual gathering of amateur and professional rose growers of the eastern states at the New York Botanical Garden will take place June 15. There will be the customary all-day program, an official tour of the rose garden, which has undergone some alterations in the past year, and provision at noontime for those who bring their own box lunches.

WILD OF SARCOXIE.

The president of the Missouri State Nurserymen's Association, Dale E. Wild, was connected with the firm of Gilbert H. Wild & Son, Sarcoxie, Mo., in the report of the association meeting in the issue of February 1.

This was an error, because Dale E. Wild's firm is the Sarcoxie Nurseries, Wild Bros. Nursery Co., at Sarcoxie, Mo., a firm now in its seventy-fifth year.

The Sarcoxie Nurseries grow a general line of nursery stock, whole-

"LOOK TO LEGHORN'S FOR YOUR LINERS"—

We still have a few liners left in the 2-yr., T, sizes and up. Write for prices on these. We also have some nice upright yews in sizes 2 to 2½ ft., 2½ to 3 ft. and 3 to 3½ ft. Send for our complete list covering both these items.

LEGHORN'S EVERGREEN NURSERIES

GEER STREET

CROMWELL, CONN.

sale and retail, and also grow a large acreage of peonies, iris, hemerocallis and lilies. Gilbert H. Wild & Son specialize in peonies, iris, hemerocallis and narcissi.

MISSOURI ENTOMOLOGIST..

The appointment of R. E. Roselle as state entomologist of Missouri on January 1 was recently announced by Missouri's commissioner of agriculture, Robert T. Thornburg. Mr. Roselle succeeds Lloyd E. Adams, who has become extension entomologist at the Pennsylvania State College.

An assistant entomologist with the agricultural department since his discharge from the United States Army in 1946, Mr. Roselle specialized in entomology, biology and education at Southwest Missouri State College and the University of Missouri.

ETHEL POPPEL was recently elected president of Michigan Peat, Inc., 267 Fifth avenue, New York. In addition to its regular handling of large quantities of peat for the trade, the firm is this year packaging peat in plastic bags from ½-peck to 100-pound sizes for resale in garden supply departments.



Musser's 2-yr. Canadian Hemlock, 4 to 8 ins.

Average 2-yr. Canadian Hemlock

CANADIAN HEMLOCK NURSERY-GROWN

Per 1000
2-yr. seedlings, 2 to 4 ins. \$30.00
2-yr. seedlings, 4 to 8 ins. 45.00
As shown on photo, size and grade are equal to average 3-yr. stock.

20 MILLION TREES A YEAR

Write for complete catalog.

MUSSER FORESTS, Inc. INDIANA, PENNA.

HEAVY ROSA MULTIFLORA

Carefully table graded.

Rose multiflora japonica (thorny)

Per 1000
40,000 6 to 8 ins. \$14.00
130,000 8 to 12 ins. 24.00
40,000 12 to 18 ins. 30.00

Usual terms.

E. D. ROBINSON SALES AGENCY
WALLINGFORD, CONN.

"SPECIALS" FROM OUR NEW LIST

TAXUS

Hicksi—Hatfieldi

Cuspidata (Spreading)

Extra-strong, 2-yr., field-grown.

Per 100
8 to 10 ins., B.R. \$25.00
10 to 12 ins., B.R. 30.00

KOSTER NURSERY
BRIDGETON, N. J.

New Products

PRESERVES BURLAP.

During the war the value of metallic base preservatives was proved by the government, which used millions of gallons of this type of protector on government equipment. In some distant theaters of war, conditions were so severe that untreated wood was destroyed in a period of weeks. The active ingredient, copper naphthanate, is not harmful to plants when so used as a preservative.

One type of this metallic base preservative, known as Cop-Ex, from the Garland Co., Cleveland 5, O., which has supplied glazing compounds to the greenhouse trade for many years, has been found quite successful in preserving burlap. Squares of burlap are dipped in the solution and then put through an ordinary wringer. So treated, the burlap lasts for months without rotting.

Hence, evergreens can be balled in autumn and stored until the spring without the necessity of reburlapping the balls. Similarly, nursery stock which is not quickly sold in salesyards can be held without deterioration of the balls due to rotting of the burlap where it comes in contact with the damp ground. The treated fabric is turned green, an attractive color for plant balls. No heating of the material is required, and it is applied easily in cold weather.

NEW TREE MOVER.

A device which will handle trees with as large as 50-inch diameter balls and trees weighing up to one and one-half tons has been put on the market by the DeALL Co., Des Plaines, Ill., under the name, Continental tree mover. The machine is calculated to cut down the cost of moving large trees as well as lengthen the planting season with less man-hour supervision per dollar volume.

The 3-wheel suspension of the tree mover affords the mobility to reach trees that might be otherwise inaccessible and to plant them in difficult places without injury to the lawn or other plantings. The unit straddles the hole or can be backed up to it for direct lifting or lowering of trees. Rear wheels are adjustable from a 52-inch to 64-inch wide tread, for hillside stability or working in confined areas.

Other features of the lightweight machine, which is of all-steel welded construction, are its tilting boom and

cradle that can be tilted as a single unit thirty degrees forward or backward by a ratchet lever jack. This positioning places the boom and ratchet lever hoist directly over the tree, eliminating the necessity of large holes or runways. Holding rings on the boom and cradle securely anchor the tree during transportation.

An adjustable tree ball sling protects the tree ball and minimizes the need for burlapping.

MACHINE MOWS TREES.

With one trip over a densely wooded area, a new tree-mowing machine, the Bushwacker, which is being produced by the American Steel Dredge Co., Inc., Fort Wayne, Ind., will reduce all trees up to eight inches in diameter and all undergrowth to small fragments and deposit the material upon the ground, without disturbing the topsoil.

Mounted on a crawler-tractor unit and powered by a 168-h.p. Diesel engine, the Bushwacker weighs fourteen tons, is ten feet wide, twenty-one and one-half feet long and clears a swath six feet wide at a speed of about one and one-half miles per hour. Because the trunk fibers are

broken off at the root junctures, regrowth is retarded, while the shredded residue serves as mulch and eventually decays, adding humus to the soil. Erosion is prevented while moisture tends to remain in the soil, a favorable factor in the rapid growth of native grasses on the worked-over area.

The Bushwacker has cleared practically all types of growths, including oak, maple, hickory, pine, willow, palmetto, honeysuckle, bull brier and other noxious growths.

PLANT PROTECTOR.

Recently developed by the General Plastics Corp., Marion, Ind., is a plant protector of extruded clear Tenite plastic sheeting. Named the Raydome because of its lightweight, transparent dome, the plastic protector is said to be well suited to incubation and growing requirements of many plants.

It comes in two symmetrical dome sizes, one ten inches in diameter and six and one-half inches high, the

GROUND COVER PLANTS

	Per 100	Per 1000
Pachysandra Terminalis		
Asst., field-grown...	\$ 6.00	\$ 50.00
2 1/4-in., pot-grown...	9.50	75.00
Vinca Minor		
2 1/4-in., pot-grown ..	10.00	90.00
Hedera Helix		
2 1/4-in., pot-grown ..	10.00	85.00
Lonicera Japonica Halliana		
2-yr., field-grown...	10.00	85.00
2 1/4-in., pot-grown ..	10.00	85.00
Euonymus Radicans		
2-yr., field-grown ...	22.50	200.00
Euonymus Radicans Coloratus		
2-yr., field-grown ...	18.00	160.00
Ajuga Reptans		
Field-grown	15.00

HUGH B. BARCLAY

NARBERTH, PA.

TAXUS BREVIFOLIA

Finished stock. Come and see it. In lots of 25 to 100. For cash.

	Each
15 to 18 ins., B&B.....	\$3.50
18 to 24 ins., B&B.....	4.50

No shipping. Send your truck.

HUEBNER'S NURSERY

MONROE, N. Y.

Route 17

Orange County

The **CHRYSANTHEMUM CATALOG** you cannot afford to be without.

WONDERLAND NURSERIES
Ellerson, Va.

HARDY NATIVE EVERGREENS

Collected Stock

Canadian Hemlock, American
Arborvitae, Balsam Fir

Per 100 Per 1000

2 to 4 ins., sdls...	\$0.80	\$ 5.00
3 to 6 ins., sdls....	1.50	10.00
6 to 9 ins., sdls....	2.50	15.00
9 to 12 ins.....	6.00	40.00
12 to 18 ins.....	8.00	65.00

All first-quality stock, well rooted and packed in sphagnum moss.

Send for trade list.

Cash, please.

R. M. COLE

Box 37 CHARLOTTE, VT.

LINING-OUT STOCK

If you have not received a copy of our 1950 price list and are interested, send for same.

THOMAS B. MEEHAN CO., Inc.
DRESHER, PA.

GRAFTED STOCK For Spring, 1950, Delivery

	Per 10	Per 100		Per 10	Per 100
<i>Acer palmatum atropurpureum</i>	\$7.00	\$65.00	<i>Juniperus virginiana elegantissima</i>	\$5.00	\$45.00
<i>Acer palmatum dissectum</i>			<i>Juniperus virginiana glauca</i>	5.00	45.00
<i>atropurpureum</i>	7.00	65.00	<i>Juniperus virginiana globosa</i>	5.00	45.00
<i>Cornus florida alba plena</i>	5.00	45.00	<i>Juniperus virginiana kosteriana</i>	5.00	45.00
<i>Cornus florida rubra</i>	5.00	45.00	<i>Juniperus virginiana schottii</i>	5.00	45.00
<i>Fagus sylvatica riversi</i>	7.00	65.00	<i>Juniperus virginiana pyramidaformis</i>		
<i>Juniperus chinensis columnaris glauca</i>	5.00	45.00	<i>hilli</i>	5.00	45.00
<i>Juniperus chinensis columnaris viridis</i>	5.00	45.00	<i>Juniperus sabina</i> Von Ehron	5.00	45.00
<i>Juniperus chinensis keteleeri</i>	5.00	45.00	<i>Magnolia lennei</i>	7.00	65.00
<i>Juniperus chinensis neaboriensis</i>	5.00	45.00	<i>Magnolia soulangeana</i>	6.50	60.00
<i>Juniperus chinensis sargentii</i>	5.00	45.00	<i>Magnolia soulangeana nigra</i>	6.50	60.00
<i>Juniperus chinensis sargentii glauca</i>	5.00	45.00	<i>Magnolia stellata</i>	6.50	60.00
<i>Juniperus chinensis meyeri</i>	5.00	45.00	<i>Magnolia stellata</i> Water Lily	6.50	60.00
<i>Juniperus virginiana burki</i>	5.00	45.00	<i>Tsuga canadensis pendula</i>	5.50	50.00
<i>Juniperus virginiana canaerti</i>	5.00	45.00	<i>Tsuga canadensis pendula</i> , 1-yr. grafts	7.00	65.00

All the above shipped from 2 1/4-inch rose pots.

Prices are F.O.B. Mountain View, N. J., packing additional at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25 per cent of amount is sent with order. All this material is listed subject to prior sale and crop conditions.

HESS' NURSERIES

MOUNTAIN VIEW, N. J.

other seven inches in diameter and four and one-half inches high. The company also manufactures an elongated ribbed dome of the same material, 7x48x4 1/2 inches, for economically protecting closely placed plants or seedlings.

NEW ARIENS PRODUCT.

Front-mounted, quick-coupling powered tools are the outstanding feature of a new garden tractor, the Gardeneer, just introduced by Ariens Co., Brillion, Wis. The machine is available with such tools as rotary tiller, lawnmower, bulldozer, sprayer, seeder and furrower, sickle bar and rotary snow plow. It has a 2 1/2-horsepower, 4-cycle engine, with three forward speeds, semi-automatic free wheeling and pneumatic tires. The rotary tiller is adjustable, ten to sixteen inches, and will till to a 6-inch depth with its new patented tines.

GRASS SEEDS IN PLASTIC.

A new bag made of light green plastic material, which permits the customer to see the actual lawn seeds inside the bag and makes its own attractive sales display in the window or on the counter, has just been introduced by the Whitney Seed Co.,

PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form in graceful racemes for next spring's flowers. White Lily of the Valley flowers appear with the first warm weather, and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with Azaleas and Rhododendrons.

	Each
2 to 4 ins., T.	\$0.10
4 to 7 ins., T.15

Send for list of other choice plants.

ALANWOLD NURSERY

NESHAMINY, Bucks Co., PA.

QUALITY MERCHANDISE AT REASONABLE PRICES

See our ad on page 5 of the
February 1 issue.

C. L. VANDERBROOK & SON MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

JAPANESE YEWS

12,000 Hicks', Vermeulen, Berrybush and Spreading, 12 to 18 ins., trimmed, 3 times transplanted, 7 years old, B&B or bare root.

\$500.00 per 1000

On orders less than 5000, \$1.10 each.

30,000 Hicks', Vermeulen and Spreading, 10 to 12 ins., 3 years old, twice transplanted and trimmed.

\$250.00 per 1000

No boxing or shipping.

J. VOELLMAR

c/o O. B. MORRELL'S

Sugar Hollow DANBURY, CONN.

LINING-OUT STOCK

Spring, 1950

Hardy Azalea Hinodegiri, Hinomayo, Nomo, Snow, Azalea Kaempferi Hybrids: Carmen, Cleopatra, Fedora, Atlanta, Mme. Butterfly, etc.

1-yr. 3 to 5 ins., 18c ea.;
4 to 6 ins., 25c ea.

2-yr. 4 to 6 ins., 35c ea.;
6 to 8 ins., 50c ea.

Cornus florida rubra, 1-yr. grafts, 18 to 24 ins., 25c ea. *Acer atropurpureum*, 1-yr. grafts, 9 to 12 ins., 75c ea. *Lilacs*, 1-yr. grafts, many varieties, 20c ea. Ask for complete list of other varieties.

DEERFIELD NURSERIES
DEERFIELD STREET P.O., N. J.

FINE LINING-OUT EVERGREENS

We offer the following stock for delivery now or later. No packing charges. 25 per cent deposit on all C.O.D. orders.

ARBORVITAE

	Per 100	Per 1000
Boothii, 4 to 6 ins., X.....	\$16.50	
Elegantissima, Golden Pyramidal, R. C.....	8.00	\$ 75.00
Elegantissima, Golden Pyramidal, 4 to 6 ins., X.....	16.50	
Globe, R. C.....	7.00	65.00
Globe, 4 to 6 ins., X.....	16.50	155.00
Nigra, Dark Green American, R. C.....	8.00	75.00
Pyramidalis, Pyramidal, R. C.....	8.00	75.00
Pyramidalis, Pyramidal, 4 to 6 ins., X.....	16.50	155.00
Orientalis, Chinese seedling, 1-yr.....	2.50	20.00

BOXWOOD

Sempervirens, 1-yr., X.....	6.50	60.00
Sempervirens, heavily rooted, R. C.....	5.00	45.00
Suffruticosa, Old English, dwarf, R. C.....	5.00	45.00
Suffruticosa, Old English, dwarf, 3 to 4 ins., X.....	8.50	75.00

JUNIPER

Hibernica, Irish Juniper, 6 to 8 ins., X.....	18.50	
Andorra, 4 to 6 ins., X.....	16.50	
Hetzii Glauca, Blue Spreader, R. C.....	8.00	75.00
Hetzii Glauca, Blue Spreader, 4 to 6 ins., X.....	17.50	165.00
Stricta, Spiny Greek, 4 to 6 ins., X.....	17.50	

TAXUS

Cuspidata, Jap. Spreading Yew, R. C.....	8.00	
Cuspidata, Jap. Spreading Yew, 4 to 6 ins., X.....	17.50	165.00
Cuspidata, Jap. Spreading Yew, heavy, 4 to 6 ins., X.....	18.00	
Capitata, Jap. Upright Yew, R. C.....	8.00	75.00
Capitata, Jap. Upright Yew, 4 to 6 ins., X.....	18.00	

CYPRESS ALLUMI, 8 to 10 ins., X.....

ILEX Crenata, Jap. Holly, R. C.....	7.00	
ILEX Crenata, Jap. Holly, 4 to 6 ins., X.....	16.50	

Write for our complete list.

ESHAM'S NURSERIES

FRANKFORD, DEL.

CHOICE ITEMS

	Each	per 100
50 Cotoneaster Apiculata.....	\$1.50	
15 to 18 ins., named.....	1.75	
500 Azalea Mollis, named.....	3.00	
30 Ginkgo, 8 to 10 ft.....	2.50	
15 Cornus Florida Plena.....	2.50	
2 1/2 to 3 ft.....	7.00	
15 Cornus Florida, 7 to 9 ft.....	1.00	
150 Cornus Florida Rubra.....	.50	
16 to 24 ins.....	.12	
150 Franklinia A., 10 to 14 ins., T.....		
500 Taxus Capitata, 2-yr. S.....		
1000 Ilex Convexa, S., \$50.00 per 1000.....		
10 Magnolia Lenoel, 4 to 5 ft.....	7.00	
100 Peony, high-rated, B&B.....	1.50	
200 Taxus Hatfieldi, 4-yr., XX.....	\$60.00	
400 Red Barberry (Conn. only).....		
3-yr., X.....	20.00	

Other choice items. Cash with order. 50 at 100 rate; 500 at 1000 rate.

BRIMFIELD GARDENS NURSERY

245 BRIMFIELD RD.
WETHERSFIELD, CONN.

PHILADELPHUS VIRGINALIS

	Each	per 100
200 3 to 4 ft., 2-yr.....	\$0.50	
400 2 to 3 ft., 2-yr.....	.40	
174 18 to 24 ins., 2-yr.....	.30	

BERBERIS THUNBERGI

2000 18 to 24 ins., 2-yr. tr.....	.25
2000 15 to 18 ins., 2-yr. tr.....	.20

F.O.B. Rochester, N. Y.

ATLANTIC AVENUE NURSERIES

J. Howard Charlton

2502 BROWNCROFT BLVD.
ROCHESTER 10, N. Y.

EVERGREENS

Northern-grown

CANADIAN HEMLOCK AMERICAN ARBORVITAE BALSAM FIR

	Per 100	Per 1000
2 to 4 ins., sdgls.....	\$ 0.80	\$ 5.00
3 to 6 ins., sdgls.....	1.50	10.00
* 6 to 9 ins., sdgls.....	2.50	15.00
* 9 to 12 ins., sdgls.....	6.00	40.00
* 12 to 18 ins., sdgls.....	8.00	65.00
* 18 to 24 ins., sdgls.....	20.00	

*Limited quantity of Arborvitae.

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, etc., on request.

WILLIAM CROSBY HORSFORD

Charlotte, Vermont

ACER PLATANOIDES • NORWAY MAPLES

	Per 100
8 to 8 ft., 1/4 to 1-in. cal.....	\$ 60.00
8 to 10 ft., 1 to 1 1/4-in. cal.....	100.00
Specimen trees.....	125.00
9 to 11 ft., 1 1/4 to 2-in. cal.....	200.00
Specimen trees.....	250.00
10 to 12 ft., 1 1/2 to 2-in. cal.....	300.00
Specimen trees.....	4.00
11 to 13 ft., 2 to 2 1/2-in. cal.....	5.00
Specimen trees.....	6.00

All these trees are well branched with fine fibrous roots and have been twice transplanted. Additional charge of 15 per cent will be added for balling. No charge for loading trucks here at the nursery.

When C.O.D. shipment is desired, a cash deposit of 25 per cent must accompany order. Orders for less than 100 of a size will be invoiced at an ADVANCE of 25 per cent OVER THE HUNDRED RATE.

STATE ROAD NURSERY

Route 1 State and Sprout Rds. MEDIA, PA.

Inc., Buffalo, N. Y., for the packing of its 3-pound and 5-pound size of the Whitney Excelsior brand lawn seeds.

Tests which have been made indicate that the bag will stand more than ordinary abuse and handling because of the unusual strength of the plastic material.

INSECTICIDE FILM.

Edco Corp., Elkton, Md., manufacturer of aerosol insecticides, fungicides and deodorants, recently completed a motion picture on 16-millimeter film showing the proper use of aerosol insecticide bombs in greenhouses. The film is available for loan to all organizations in the trade. Requests for the use of the film, to be granted in the order received, should be sent to the Edco Corp., Elkton, Md.

The movie shows the complete technique for applying all types of greenhouse aerosols. Not only does it picture the use of such insecticides as DDT, Parathion, tetraethylpyrophosphate, etc., but it also shows how to obtain maximum control of various insects.

NEW ENGLAND EDUCATIONAL DAY.

[Continued from page 9.]

the job or give him a sketch or instructions to follow when he is not there. It is important that the salesman's promises to customers be kept.

When the planting is completed, any changes made are transferred to the invoice and office copies. The planting foreman keeps his slip with notes, for reference on later inquiries or possible complaints.

The digging and planting copies are compared with the office copy, costs are checked and additions to the invoice are approved by the salesman.

Thus it is seen that fifteen to twenty persons handle each order. Consequently explicit instructions are required.

The salesman should call back to see the customer in four or five weeks after the job is planted, said Mr. Godin. He can give instructions, see that the customer is satisfied and sometimes book additional business.

As to what extent the salesman should watch a job after it is completed, Mr. Godin said his company sold pruning and spraying service when it sold a planting job. That gave the opportunity for an annual follow-up. In addition, he thought the salesman should stop occasionally to maintain customer contact.

Comments from the floor were

ROSES

CUSTOMER-MAKING, QUALITY STOCK

California-grown—in good condition to ship at once.

Retail Price	PATENTED VARIETIES	Per 10	Per 100
*\$1.25 rose wholesales for		\$ 7.00	\$ 60.00
**\$1.35 rose wholesales for		7.50	65.00
***\$1.50 rose wholesales for		9.00	75.00
****\$2.00 rose wholesales for		11.00	100.00

No. 1½ available at 20 per cent discount.

*After variety, available in No. 1½ only.

****Applause *
 ***Charlotte Armstrong
 **Countess Vandal
 ***Best Regards
 ***Forty-niner
 ***Fred Edmunds
 ***Golden Anniversary *
 ***Gr. Duchess Charlotte
 ***Heart's Desire
 ***Horace McFarland *
 ***Eclipse *
 ***Lowell Thomas
 ***Mark Sullivan

***Mirandy
 ***Mme. Chiang Kai-shek
 ***Mme. Henri Guillot
 ***Peace *
 ***Ramon Bach *
 ***Santa Anita *
 ***San Fernando
 ***Show Girl *
 ***Signora
 ***Tallyho
 ***Texas Centennial
 ***Nocturne

FLORIBUNDAS
 ***Chatter
 ***Red Pinocchio
 *Pinocchio
 *Snowbank
 *Smiles
 CLIMBERS
 ***Cl. High Noon
 ***Cl. Crimson Glory
 ***Cl. Tour. of Roses
 ***Cl. Night

MORDIGAN EVERGREEN NURSERIES

"Always Growing"



Wholesale Growers Only
 P. O. BOX 109

Specializing in Conifers and Roses
 SAN FERNANDO, CALIF.



that after-calls saved complaints and avoided losses, besides earning good will. The landscape foreman can be a good contact man to watch the jobs, especially lawns.

Peter Cascio said he replaced trees or shrubs that died after planting at one-half price because, if a full guarantee were given, the customer sometimes unreasonably thought the nurseryman was required to water the plants, if necessary to their survival.

Some difference of opinion occurred as to whether replacement should be made without notifying the customer. Sometimes the owner wants to be on hand when the new plant is put in. In fact, some thought that, when the customer watched the replanting, there was an opportunity to make a further sale.

Retailer versus Wholesaler.

"What the Retail Landscape Nurserymen Expects When He Buys Nursery Stock" was set forth by Richard M. Wyman, Jr., of Wyman's Framingham Nurseries, Framingham, Mass. First he wanted a full count of salable plants, not eighty salable plants out of 100 and twenty which could not immediately be offered to a retail customer. He wanted the full grade in size, not all the plants

[Continued on page 72.]

ORNAMENTAL EVERGREENS

Trees & Shrubs

BAGATELLE NURSERY
 P. O. Huntington Station, N. Y.



KOREAN PINE (Nut Pine)
 For PARKS and ESTATES
 3 to 5 feet
ELFGREN NURSERIES
 EAST KILLINGLY, CONN.

Hybrid Rhododendrons

Catawbiense Grandiflorum,
 8 ft., bushy.

Large, bushy Hinodegiri Azaleas, 3 to 4 ft. across; lining-out stock of Hinodegiri, \$15.00 per 100.

DUDLEY NURSERY
 VEREE RD. above RHAWN ST.
 FOX CHASE,
 PHILADELPHIA 11, PA.

The HOME of
Better New Perennials
 PLANTS THAT PAY THEIR WAY!

Originators — Disseminators

**CORLISS BROS., Inc.,
NURSERIES**

17 Reynard St. Gloucester, Mass.

ROSA MULTIFLORA JAPONICA

Excellent stock
 Row-run, \$18.00 per 1000
 Sample for \$2.00

BROOKVILLE NURSERIES
 GLEN HEAD, N. Y.

FLOWER SEEDS

IN BULK
FRESHLY PACKED

ALYSSUM		
montanum, yellow	1/8 oz.	\$0.45
saxatile compactum, Gold Dust	1/4 oz.	.25
ANCHUSA		
italica Lissadell	1/4 oz.	.30
italica Opal, lt. blue	1/4 oz.	.30
AQUILEGIA		
canadensis, old rose with yellow	1/8 oz.	.45
Crimson Star	1/8 oz.	.90
long-spurred hybrids, mixed	1/8 oz.	.40
CANDYTUFT		
gibraltarica, lilac	1/2 oz.	.35
sempervirens, white	1/4 oz.	.55
CHRYSANTHEMUM		
leucanthemum Alaska	1/8 oz.	.25
leucanthemum, giant double	1/8 oz.	.35
white	1/8 oz.	.25
leucanthemum, Shasta Daisy	1/8 oz.	.25
COREOPSIS		
lanceolata Mayfield Giant	1/2 oz.	.30
lanceolata Sunburst, double	1/2 oz.	.30
golden	1/2 oz.	.30
DELPHINIUM		
Gold Medal hybrids	1/4 oz.	.40
Lamarline	1/4 oz.	.60
Wrexham (Hollyhock fl.)	1/4 oz.	.75
mixed	1/4 oz.	.90
Pacific Giant hybrids, mixed	1/4 oz.	.30
DIANTHUS		
allwood alpinus	1/8 oz.	.55
deltoides, rose, Maiden Pink	1/8 oz.	.60
deltoides erecta, red	1/8 oz.	.50
deltoides splendens, red	1/8 oz.	.65
plumarius, double, mixed	1/4 oz.	.45
plumarius, single, mixed	1/2 oz.	.25
plumarius semperflorens	1/4 oz.	.50
double, mixed	1/4 oz.	.50
plumarius semperflorens	1/4 oz.	.30
single, mixed	1/4 oz.	.30
DIGITALIS		
gloriosaeflora, lg.-fl., purple	1/4 oz.	.30
gloriosaeflora, lg.-fl., rose	1/4 oz.	.30
gloriosaeflora, lg.-fl., The Shirley	1/4 oz.	.30
gloriosaeflora, lg.-fl., white	1/4 oz.	.30
gloriosaeflora, lg.-fl., mixed	1/4 oz.	.25
purpurea	1/4 oz.	.30
GAILLARDIA		
Dazzler, lg.-fl.	1/4 oz.	.35
Goblin, lg.-fl.	1/4 oz.	.40
Portola hybrids, lg.-fl.	1/4 oz.	.30
GYPSOPHILA		
paniculata, double, white	1/4 oz.	.45
paniculata, single, white	1/8 oz.	.25
repens, dwarf, lt. rose	1/8 oz.	.30
repens, dwarf, white	1/8 oz.	.30
HELIOTROPICUM		
King of the Blacks	1/8 oz.	.35
Lemoine, mixed	1/8 oz.	.25
HOLLYHOCK		
Chater's Double, blush, carmine-red, corfman-pink, garnet-red, golden-yellow, lilac, Newport-pink, rose, rose-pink, red-salmon, salmon-pink, scarlet sunset, white or yellow	each 1/4 oz.	.45
LINUM		
flavum, Golden Flax	1/8 oz.	.30
flavum compactum	1/8 oz.	.45
golden-yellow	1/8 oz.	.45
perenne, blue or white	each 1/2 oz.	.25
MATRICARIA		
capensis, double, white	1/8 oz.	.30
Feverfew	1/8 oz.	.40
eximea, dble., df., Golden Ball	1/8 oz.	.30
eximea, dble., df., Lemon Ball	1/8 oz.	.40
PANSY		
Swiss Giants, mixed	1/2 oz.	1.35
Swiss Giants, dwarf	1/2 oz.	1.50
PENSTEMON		
glaber roseus, rose	1/8 oz.	.75
gloriosaeflora Sensation, mixed	1/2 oz.	.75
POPPY		
nudicaule, double, mixed	1/8 oz.	.40
nudicaule, Garford giants, mixed	1/8 oz.	.40
nudicaule, Sanford's hybrids	1/8 oz.	.45
mixed	1/8 oz.	.35
nudicaule The Emperor, orange	1/8 oz.	.35
nudicaule Unwin's Giant	1/8 oz.	.35
Coonara	1/8 oz.	.35
nudicaule, single, white	1/8 oz.	.30
nudicaule, single, mixed	1/8 oz.	.30
SALVIA		
splendens	1/4 oz.	.55
splendens America	1/4 oz.	.60
splendens Blaze of Fire	1/4 oz.	.75
splendens Bonfire	1/4 oz.	.60
splendens Zurich	1/4 oz.	.60
TRITOMA		
Plitzer's early hybrids	1/8 oz.	.35

HERBST BROTHERS
92 Warren St., New York 7, N. Y.

CORNELL SPEAKERS AT NEW YORK SCHOOL.

[Continued from page 17.]

laborated with Dr. Pridham and mentioned that reasonable control of quack grass had been obtained when using ammonium thiocyanite. This is only a top killer. However, sodium trichloroacetate does a better job by killing both tops and roots. It is applied at the rate of 100 pounds per acre. It is mixed with 100 gallons of water and averages about \$50 per acre, which makes it less expensive than ammonium thiocyanite, which costs about \$150 per acre, and it is a better weed killer.

The highlight of the program was Dr. Clement G. Bowers' illustrated lecture on "Rhododendrons and Azaleas." I doubt if it would have been possible to accommodate an additional person in the room at this time, and no one left until Dr. Bowers finished showing his last slide. Dr. Bowers is research assistant at Cornell University.

There were many notable statements made by Dr. Bowers as he colorfully described his experiences in England and Europe. "It is not always the species with which we should be concerned because oftentimes a variation may prove more hardy and worthy," he said. "Do not be misled by the way the Royal Horticultural Society of England rates rhododendrons, because most of their highly rated ones cannot be grown on Long Island," he cautioned, adding, "Of the 900 species of rhododendrons, only about 100 are worthy of cultivation." Dr. Bowers' comments on his experiences with rhododendrons and azaleas were published in the November 1, 1949, issue of the American Nurseryman.

There was a proud note in Dr. Bowers' voice as he mentioned that he had a 5-minute chat with the Queen of England during his visit there last summer. The queen inquired about the dogwood and laurel of the United States and seemed to have a profound interest in plants and horticulture.

Also, while at one of the English shows, Dr. Bowers overheard the following remark made by one of the English ladies: "Well, they haven't taken the flowers away from us—at least, not yet."

The time went altogether too quickly as Dr. Bowers pictorially moved from England to the rhododendron and azalea displays at the Paris shows, along the canals of Holland into Boskoop and Amsterdam and back again to England.

Magnificent specimens of Rhododendron arboreum were shown, one

NORTHERN-GROWN LINING-OUT STOCK

Betula papyrifera	Per 100	Per 1000
1 to 2 ft.	\$ 6.00	\$50.00
2 to 3 ft.	8.00	70.00
3 to 4 ft.	25.00
4 to 6 ft.	40.00
Clethra alnifolia		
6 to 18 ins.	6.00	50.00
18 to 24 ins.	8.00	70.00
Ilex verticillata		
1 to 2 ft.	6.00	50.00
Syringa vulgaris		
1 to 2 ft.	6.00	50.00
Viburnum cassinoides		
1 to 2 ft.	6.00	50.00
Viburnum dentatum		
6 to 12 ins.	5.00	40.00
1 to 2 ft.	6.00	50.00

EVERGREENS

Abies balsamea	4 to 8 ins.	4.00	25.00
	8 to 12 ins.	8.00	60.00
Thuja occidentalis			
	6 to 9 ins.	4.00	25.00
	6 to 12 ins.	5.00	40.00
Tsuga canadensis			
	4 to 8 ins.	4.00	25.00
	8 to 12 ins.	5.00	40.00

The above stock is first-quality collected lining-out stock. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS

P. O. Box 352
Exeter, New Hampshire

FOR 52 YEARS

Our business has been
growing

Rhododendrons

Azaleas

Perennials, Roses

All Nursery Items

BOBBINK & ATKINS

E. RUTHERFORD, N. J.

BOOKS

TAYLOR'S ENCYCLOPEDIA OF GARDENING.

by Norman Taylor. \$5.00.

MAINTENANCE OF SHADE AND ORNAMENTAL TREES AND SHRUBS.

by P. P. Pirone. \$6.50.

SPRAY CHEMICALS AND APPLICATION EQUIPMENT.

by J. A. McClintock and W. B. Fisher. \$6.25.

DISEASES AND PESTS OF ORNAMENTAL PLANTS.

by Bernard Dodge and W. L. Rickett. \$6.00.

THE PRUNING BOOK.

by Gustav Wittrock. \$3.00.

These books can be obtained, at the publisher's price indicated, from

AMERICAN NURSERYMAN

343 S. Dearborn St., Chicago 4, Ill.

Turf-Maker

LAWN SEED

You can't argue with results—and Turf-Maker's popularity is due entirely to the results obtained by Nurserymen and Greenkeepers all over the country. You can depend on Turf-Maker for a deep rooted, perennial turf.

Problems? Write for Woodruff's "Something about Turf."



GROWS BETTER LAWNS



F. H. WOODRUFF & Sons, Inc.
Seed Growers

Milford, Conn., Bellerose, L. I.

Atlanta, Sacramento, Dallas, Mercedes, Tex., Toledo

plant sixty feet high, on some of the old castle grounds of southern England. In the next instant a dwarf type, some eighteen inches high, would be on the screen. "Ohs" and "ahs" accompanied the change of slides.

Even with all this remarkable panorama of rhododendron colors, Dr. Bowers seemed most impressed by the fact that maybe someday these good colors and flower types may be growing on such hardy understocks as Rhododendron maximum and Rhododendron catawbiense and thus find their way into eastern nurseries and gardens in the United States.

SINCE January 1 E. L. Vann, Hayward Greenhouses, Hayward, Wis., has been vacationing at Everglades, Fla.

ENJOYING a Florida vacation last month were V. J. Vanicek and J. C. Brownell, of the Rhode Island Nurseries, Newport, R. I.

RETIREMENT plans were recently announced by Fred Mahan, after thirty-nine years as the directing head of the Monticello Nursery Co., Monticello, Fla. In recognition of Mr. Mahan's untiring efforts and his gift of hundreds of plants and shrubs for its beautification, the Tallahassee highway has been designated as Fred Mahan drive.

A. B. C.
"Supreme" Quality
SEEDS — PLANTS — BULBS
and
Growers' Accessories

Write for our latest prices.

AMERICAN BULB CO.
1335 W. Randolph St. CHICAGO 7
31 W. 27th St. NEW YORK 1

CHINESE CHESTNUT Seed Nuts

Pure Castanea mollissima seed nuts of Peter Lui strains (U.S.D.A.) at following rates.

	March Per lb.
1 to 4 lbs.....	\$1.00
5 to 10 lbs.....	.80
11 to 100 lbs.....	.70
101 to 250 lbs.....	.65
251 to 500 lbs.....	.60
Over 500 lbs.....	.55

F.O.B. shipping point.

LEELAND FARMS

P.O. Box 128 LEESBURG, GA.

CHARLES SIZEMORE Traffic Manager

319½ Georgia St., Louisiana, Mo.

Loss and damage claims against railroad and express companies collected.

Freight bills audited.

Past due notes and accounts collected.

Well known to the nurserymen of the country.

Reference: Bank of Louisiana.

SEEDS

Collectors of Tree, Shrub and Wild Flower Seeds

Crude Drugs and Ornamentals

E. C. MORAN Stanford, Mont.

Brown's
LAWN SEED
A. J. BROWN & SON, INC.
128 GOLDBROOK, N. E.
GRAND RAPIDS 3, MICHIGAN

LILY SEEDS

We offer the most complete listing of lily seeds available on the American market. Revised spring price list sent promptly upon request.

EDGAR L. KLINE

Lily Specialist LAKE GROVE, ORE.

Ohio Nursery Short Course Talks

By Everett Janne and Charles Dickinson

The third day of the Ohio short course for arborists, landscape gardeners and nurserymen, held January 23 to 25 at the Neil House, Columbus, under the sponsorship of the department of horticulture, Ohio State University, was devoted to nurserymen and was reported in the preceding issue, except for the following three talks.

Nursery Stock Storages.

A topic of great interest and concern to nurserymen was presented by Dr. J. H. L. Truscott, of the horticultural experiment station, Vineland Station, Ont., Canada, when he spoke on "The Construction and Management of Storages for Nursery Stock."

He explained that while a great deal of information concerning fruits and vegetable storages is available there is little printed information concerning the storage of nursery products. Dr. Truscott feels that a great deal of information might be gained by comparing nursery stock with various types of fruits and vegetables. The nurseryman stores living plant tissues which can be expected to have many of the characteristics of the more familiar fruit and vegetables; so this should present no new biological problems. Also, "The problems involving insulation, temperature control, humidity control and the chemical make-up of the atmosphere surrounding each piece of stored tissue are similar whether you store apple fruits or apple trees," he said. The storage of herbaceous perennials offers much the same problem as the storage of leafy vegetables, and the storage of roots, bulbs, tubers and corms offers problems similar to those encountered in the storage of various vegetables.

After comparing the retail value of a storage filled with nursery stock and one filled with fruit, Dr. Truscott found that, on a cubic foot basis, a storage room filled with nursery stock was more valuable than one filled with any of the commoner fruits.

While the basic problems in the storage of nursery stock may be similar to those in other fields, there are some problems which are peculiar only to the storage of nursery stock. One of these differences is that in fruit and vegetable storage the stored product is consumed within a short

time after removal from storage, but, in the case of nursery stock, it not only has to survive the storage experience; it must also grow and continue to grow after removal from storage.

"Another peculiarity of nursery plants," said Dr. Truscott, "is that many are bulky, the woody ones contain many cells which do not respire and heat production per cubic foot may be very low.

"Much of the stock is in the so-called dormant condition when it enters storage, and its relative biological inactivity during the initial storage period may lull one into the belief that his storage is admirable and things are keeping very well. It is rather bewildering when suddenly things begin to go wrong later in the storage season when the plants have reached the phase when they are ready to grow."

The word management includes decisions on the part of the storage manager as to how each species and variety of stock is to be stored. Ac-

cording to Dr. Truscott, experiments at Vineland Station would indicate that suitable storage conditions include a temperature of 32 degrees Fahrenheit to 2 degrees Fahrenheit, a relative humidity of ninety to ninety-five per cent and the roots protected with dampened materials such as peat moss or shingle tow.

In building a storage, Dr. Truscott feels that each storage is an individual problem, as the size and layout must fit each individual's requirements, and the cost should have some relationship to the bank account. Other factors to consider include floor loads and ceiling clearances necessary for good air circulation. There should be at least three feet of clear space above the storage load, from four to twelve inches of space between the load and the wall, as much space as can be

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afforded between stacks and at least a foot of space between the load and the floor. Uniform conditions of humidity and temperature can be obtained only if the air in the storage can move around and mix freely. It is the temperature of the stored tissue that is important.

The big problem confronting the builder of refrigerated storages is insulation. Dr. Truscott pointed out that the greatest source of trouble is that insulation tends to get wet. Wetness reduces the ability of the insulation to slow the movement of heat and allows some types of decay or breakdown chemically. It may also cause paint or finish troubles and breakdown of the structural parts of the building.

Wetness comes about because ordinary walls are not completely airtight and because there is a range of temperature within the insulation from that which is current outside the room to that which is current inside the room. As the outside temperature changes, the air within the insulation expands and contracts. This is the so-called breathing of walls. If moist, warm air hits a cold spot in the insulation, water condenses in the insulation.

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- Juniperus, Irish, 4 to 5 ft.
- Juniperus Virg. Hilli, 6 to 7 ft.
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ings: Fill types, loose or batt form; slab types, and reflective types. With the first two, asphalt is often used as a water-vapor seal. Good insulation can be obtained by use of a fill-type insulant providing it is of adequate thickness. Protection against wetting depends more on the sealing job rather than the type of fill used. In general, most fill-type materials do not add to the fire risk. Also, poisons may be added to susceptible fills which render them noxious to rodents. If the storage is used only part of the year and has a chance to dry out, the insulation will dry also. Fill-type insulants must be applied in created spaces, such as in double walls.

Slab-type insulation is relatively easy to apply as it does not need created spaces. This type includes either cork, glass or plasters. The insulation value of the reflective types depends on their ability to reflect radiant heat and on narrow air spaces to retard conducted and air-borne, air-convection heat.

Another topic of major importance in storage is heat, for it is the energy which keeps the nursery stock alive and functioning. In general, the problem in the storage of a living product is to determine and then maintain just the amount of heat which will allow the slowest rate of respiration or "living" without permanent injury.

Heat moves from warm objects to cool objects by radiation, by conduction through materials and by heat-bearing air which is pushed around by cooler air (convection). Artificial refrigeration machines are devices to control the amount of heat in a space by absorbing and removing unwanted heat.

Humidity and temperature are closely related. A change in temperature brings about an opposite change in humidity. Nursery stock requires as high humidity as can be maintained without precipitation. Humidifying devices are necessary to maintain the desired humidity in refrigerated storages.

Dr. Truscott believes that continuous forced circulation of air is a necessity in storages housing live plants. One must avoid allowing fast-moving air to come in contact with the stored plants in order to prevent excessive desiccation. The only solution to proper air distribution at the present time is to carry through ducts a large volume of air under a low positive pressure. The air could be sprayed out at frequent regular intervals through slats in the side of the ducts. If the air is collected through similar ducts maintained at

a negative pressure, fast-moving air in the vicinity of the fan can be avoided.

In concluding his discussion, Dr. Truscott stated that a good, well controlled storage is not much more costly than one where all possible corners have been cut to reduce expenses. The history of storages in other horticultural fields has been in the direction of more and more exactness of control. He also believes that this will become true of nursery stock storage.

Insect Control.

The problem of pest control is one which always confronts the nurseryman. Dr. R. B. Neiswander, department of entomology, discussed the results of "Investigations of Nursery Insects During 1949," using an interesting series of slides to illustrate his talk.

According to Dr. Neiswander, the black vine weevil caused damage in at least five Ohio nurseries in 1949. The most severe injury was observed in taxus plantings where an occasional plant was killed and others were severely injured. Injured trees occurred at random throughout a planting and were usually surrounded by plants that were not damaged. In Lake county two plants showing severe injury were dug early in June, and a total of seventy-three larvae, pupae and adults of the black vine weevil were found among the roots of the plants. Nearly all of the small roots were dead, and much of the bark had been chewed from the larger roots.

Two peculiar characteristics of this insect are that the adults cannot fly and that there are no males. Only one brood occurs each year. The adults appear early in June and feed on the foliage during June and July. They feed primarily at night and therefore are seldom noticed, as they hide under clods of earth or among dead needles under the plant during the day. The eggs are dropped to the ground beneath the plant in July and August. The newly hatched larvae burrow into the soil and feed on the roots until cold weather appears. The insects overwinter in the soil either as larvae or as prepupae.

An attempt was made to control the insects by killing the adults before their eggs were deposited. Of the six different insecticides applied to test plots on June 7, the application of two and one-half pounds of ten per cent benzene hexachloride to 100 gallons of water gave excellent control. After the results obtained with benzene hexachloride

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100 Juniperus Virg. Pyramidalis, 7 to 8 ft.	10.00	9.00	100 Thuja Occidentalis, 4 to 5 ft.	4.00	3.75
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were noted, the entire planting was sprayed with the same formulation on June 17. Two weeks later no living beetles could be found. Reports from other states indicate that the black vine weevil can be controlled with benzene hexachloride or DDT in soil treatments at the rates commonly recommended for the control of Japanese beetle larvae.

With regard to taxus mealy bugs, Dr. Neiswander emphasized that a statement he made at last year's short course would bear repeating at this time. It was that: "The most opportune time for the application of insecticides for the control of mealy bugs on taxus occurs during the latter half of May and the fore part of June when the insects are not protected by the masses of white fibrous material produced by the adult females."

Excellent control of mealy bug was obtained with Parathion when used in two applications with an interval of approximately ten days between applications. The spray formulation used was one and one-half pounds of twenty-five per cent Parathion to 100 gallons of water. A fair degree of control may also be obtained by spraying with Parathion in late July and early August shortly after the second brood hatches.

Although observations made in the taxus plantation at Wooster for varieties resistant to mealy bugs did not give conclusive information, the plants with the most dense and compact foliage seemed to be most heavily infested. Three of the more heavily infested varieties were Taxus cuspidata densa, T. cuspidata nana and T. baccata aurea.

Dr. Neiswander reported that he has obtained excellent results with Parathion in the control of juniper scale. He recommended using one and one-half pounds of twenty-five per cent actual Parathion to 100 gallons of water and thoroughly spraying the plants in early May when the insects are feeding actively but before oviposition has occurred.

Heavy infestations of euonymus scale, Unaspis euonymi (Comst.), were observed in a nursery near Cincinnati. The insects overwintered as mature females located on the twigs of Euonymus vegetus. The females were producing living young by May 12, and crawlers continued to appear for six to eight weeks. The crawlers soon established themselves on the lower surface of the new leaves as well as on the twig stems. By June 21 the white male scales were conspicuous, and winged adult males were observed in considerable numbers

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Branched, 5 to 6 ft.	15.00		
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Whips, 5 to 6 ft.	10.00		
Whips, 4 to 5 ft.	7.50		
Whips, 3 to 4 ft.	5.00		
Whips, 2 to 3 ft.	4.00		
PURPLE LEAF PLUM, Newport.			
3 to 4 ft., branched.	50.00		
PLUM, Sapa, Opata, Gold, Red June, Abundance.			
9/16 to 11/16-in., 4 1/2 ft.	45.00		
7/16 to 9/16-in., 3 1/2 ft.	35.00		
5/16 to 7/16-in., 3 ft.	25.00		
APRICOT, Perfection, Superb.			
9/16 to 11/16-in., 4 1/2 ft.	45.00		
7/16 to 9/16-in., 3 1/2 ft.	35.00		
5/16 to 7/16-in., 3 ft.	25.00		
FLOWERING PEACH, Double red.			
5 to 6 ft., branched.	65.00		
4 to 5 ft., branched.	55.00		
3 to 4 ft., branched.	45.00		
30 at 100 rate; 300 at 1000 rate.			

Packing FREE.

M. MEYER'S NURSERY

5439 S. Hydraulic, R. 5 WICHITA, KAN.

EVERGREENS SHRUBS SHADE TREES POPLARS

5000 *Juniperus Pfitzeriana*, 2 1/4-in. rose pots. Now growing in greenhouse.

\$22.50 per 100; \$200.00 per 1000.

Write for surplus list.

THE HENRY NURSERIES

Ingels Bros.
HENRY, ILL.

BURTON'S

HEADQUARTERS FOR
EVERGREEN GRAFTS, TRANSPLANTED
EVERGREENS, SHRUB LINERS.
Write!
RARE ITEMS YOU DO NOT
FIND IN MOST LISTS!
HILLTOP NURSERIES
CASHTOWN, OHIO

on June 29. By July 18 the young crawlers of the second brood were observed, and thereafter scale insects in all stages of development were present until cold weather appeared.

Parathion at the usual strength of one and one-half pounds of twenty-five per cent actual to 100 gallons of water gave a ninety-seven per cent control of euonymus scale. The applications were made May 12 and May 25. An application on June 27 gave a ninety-five per cent kill.

Summer oil sprays also proved effective. An application of a four or five per cent summer oil early in April followed by an application of a two per cent strength in May when the new brood appears should prove satisfactory.

Investigations on the control of spruce mite on Pfitzer juniper and on chamaecyparis were also made during the past summer. "Unfortunately the material that showed the most residual value, C-954, is an experimental material not on the market. However," Dr. Neiswander continued, "a number of available materials killed a high percentage of the active mites and no doubt would prove satisfactory if used in two applications with an interval of one week between applications." He mentioned Dimite, Arathane and NNORP as being quite effective. Liquid lime-sulphur proved effective, but might injure certain types of evergreens in hot weather.

For the control of the European pine sawfly which feeds on pine needles, Dr. Neiswander recommended using a five per cent DDT dust or two pounds of fifty per cent wettable DDT to 100 gallons of water. The spray or dust applications should be made about May 1 in order to kill the larvae as they feed on the needles.

Parathion proved effective against the European pine-shoot moth. For best results use one and one-half pounds of twenty-five per cent Parathion to 100 gallons and use two applications at 8-day intervals. Two spray formulations that gave excellent control of the pine-shoot moth when used in two applications at 8-day intervals were four pounds of six per cent Rotenone to 100 gallons of water and four pounds of fifty per cent DDT to 100 gallons of water. The spray applications for the control of the pine-shoot moth should be made during the period in which the eggs are hatching. This is usually during the last part of June and early July.

Processing Seeds.

B. C. Smith, who is with the department of horticulture, limited his discussion to the proper methods of

PFITZER JUNIPER LINERS

5 to 8 ins., in plant bands for field planting.

Will outperform much larger bare-root plants and cost you less money.

Book your order for spring.

Immediate or later delivery if wanted.

We winter everything in the greenhouse.

300 or more,
\$13.50 per 100.

Less than 300,
\$15.00 per 100.

Free samples on request.

McININCH GREENHOUSES
ST. JOSEPH, MO.

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.
ONARGA, ILL.

WHOLESALE NURSERY STOCK

Cushion Chrysanthemums, No. 1 rooted div.

General Line of Small Fruit Plants
Lining-out Evergreens
Fruit Trees

O.K. NURSERY
R. R. 2 BUCHANAN, MICH.

SMALL FRUIT PLANTS

Evergreens—Shrubs
Asparagus—Rhubarb
Send for Complete Trade List.

W. N. SCARFF'S SONS
NEW CARLISLE, O.

handling small quantities of seeds in a talk on "Cleaning and Processing Seeds of Nursery Plants."

No one method of cleaning seeds will work for all types of seeds, Mr. Smith told the nurserymen, and the important thing to remember is to adopt the method that gives the greatest quantity of viable seeds in the shortest time with the least expenditure of effort. He emphasized the importance of proper identification and labeling of seeds so as to prevent costly mistakes in the seedbed. With regard to maturity, he pointed out that it is essential to know the maturity date of the species to be collected so as to be able to collect the seeds before birds, mice, squirrels or other ecological factors ruin the harvest.

Seeds of the following species are usually extracted by threshing and screening: *Alnus*, alder; *betula*, beech; *catalpa*; *Gymnocladus dioicus*, Kentucky coffee tree; *corylus*, filbert; *Gleditsia triacanthos*, honey locust; *Syringa vulgaris*, common lilac; *Caragana arborescens*, Siberian pea shrub; *Cercis canadensis*, eastern redbud; *rhododendron*; *oxydendrum*, sourwood; *rhus*, sumac; *juglans*, walnut; *Hamamelis virginiana*, witch hazel; *aronia*, chokeberry; *euonymus*; *Ostrya virginiana*, eastern hop hornbeam; *platanus*, sycamore; *populus*, poplar; *sassafras*; *tilia*, basswood or linden, and *quercus*, oak.

To extract seeds of cone-bearing species, the cones must be thoroughly dried. This can be accomplished by air drying in improvised rooms, specially built rooms, kilns or centrifuges. An effective method of drying cones is to spread them in a single layer on a wire-mesh tray in a well ventilated room for one to three weeks. For larger quantities, simple convectional kilns or forced air kilns are more efficient, as the cones can be dried over a period of a few hours to two days. Cones from red, lodgepole, Monterey and knobcone pines are often processed by soaking in water at 130 degrees Fahrenheit for five to twenty minutes.

A hammer mill type of grinder works well on many dry pods. The ground material is passed over a series of screens to clean the seeds from the chaff. Ordinarily, between 400 and 800 revolutions per minute are desired to prevent injury to the seeds. If the hammers in such a machine are replaced with carborundum wheels it can be used as a seed scarifier. A speed of 200 revolutions per minute is recommended for the scarification process.

Dewinging small quantities of

SPRING, 1950, WHOLESALE PRICE LIST

Rooted Evergreen Cuttings

FIELD FRAMES	Per 100	POTS—Continued	Per 100
<i>Juniperus Hetzi Glauca</i>		<i>Taxus Capitata</i>	
1000 8 to 10 ins., 3-yr.	\$27.50	2000 6 to 8 ins., pots.	\$25.00
2000 8 to 10 ins., 2-yr.	25.00	<i>Taxus Media Hicksi</i>	
<i>Juniperus Hor. Pl. (Andorra)</i>		4000 6 to 8 ins., pots.	25.00
4000 8 to 10 ins., 2-yr.	20.00	1000 8 to 10 ins., pots.	27.50
<i>Thuja Occ. Globosa</i>		<i>Juniperus Chin. Pfitzeriana</i>	
2000 6 to 8 ins., 3-yr.	22.50	4000 6 to 8 ins., pots.	20.00
4000 6 to 8 ins., 2-yr.	20.00	400 dwarf, pots.	30.00
<i>Thuja Occ. Pyramidalis</i>			
2000 6 to 8 ins., 2-yr.	22.50		
POTS	Per 100	Terms: NET CASH WITH ORDER; PACKING FREE	
<i>Juniperus Hetzi Glauca</i>		Orders will be filled in turn as received while our stocks last, subject to conditions beyond our control.	
4000 6 to 8 ins., pots.	\$25.00	An order for 25 of the same variety and size sold at the 100 rate.	
<i>Juniperus Hor. Pl. (Andorra)</i>		Minimum order, 100 plants.	
4000 6 to 8 ins., pots.	20.00	We would welcome your inspection.	
<i>Taxus Cuspidata</i>		Location is 18 miles west of Chicago on Alternate U. S. 30.	
4000 6 to 8 ins., pots.	25.00		
2000 4 to 6 ins., pots.	22.50		

ELMHURST NURSERIES, Inc.

York and Roosevelt Roads, ELMHURST, ILL.

Ted W. Smith, Pres.

Phone: 5686

Emil H. Martens, Mgr.

AMUR RIVER NORTH PRIVET

Per 1000

18 to 24 ins., 2 branches. \$30.00

18 to 24 ins., 3 branches. 40.00

F.O.B. Tyler, Texas.

Terms: 25 per cent cash with order, balance C.O.D.

ROSE HILL FARM

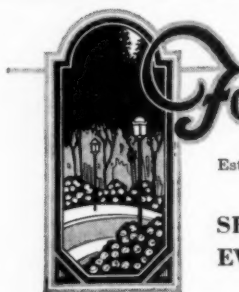
R.F.D. 4

TYLER, TEXAS

J. R. Boyd, President

John T. Boyd, Vice-president

H. B. Stubblefield, Supt.



FOREST NURSERY CO.

McMinnville, Tenn.

Established 1887

Long Distance Phone No. 234

Growers and Wholesale Dealers

SHRUBS, FOREST and SHADE TREES,
EVERGREENS, VINES and CREEPERS

Trade list mailed on request.

winged seeds, such as larch; *carpinus*, American hornbeam; *pseudotsuga*, Douglas fir; *acer*, maple, and others, can be done easily by rubbing them between the moistened palm of the hand.

The flotation method of seed cleaning may be used when the good seeds are heavy enough to sink in water and allow the residue to wash off the top of the container.

In his studies with cotoneaster, juniper and *viburnum* seeds, Mr. Smith has had good results in removing the fleshy pulp from the seeds by using a high-speed mixer similar to those

used at soda fountains. This worked well with cotoneaster seeds. A mixture of fresh fruit and water was placed in the mixer and stirred at high speed until the pulp was broken from the seeds. This mixture was then poured into a container filled with water and the light pulp floated off, leaving the heavier seeds in the bottom.

The same method was used for cleaning juniper seeds, except that the fleshy cones were crushed before being placed in the mixer. In order to crush the fleshy cones they were spread out on a flat surface and crushed with a wooden roller.

Beautiful NATIVE RED CEDARS

	Per 1000
5 to 10 ins.....	\$20.00
10 to 15 ins.....	35.00
	Per 100
15 to 24 ins.....	\$ 7.50
2 to 3 ft.....	12.50
3 to 4 ft.....	17.50

APPLE and PEACH TREES

	Per 100
2 to 3 ft.....	\$ 8.00
3 to 4 ft.....	12.00
4 to 5 ft., while they last.....	20.00

APPLE TREES Per 100
5 to 6 ft., while they last.....\$30.00

GRAPEVINES Per 1000
Concord, 2-yr., No. 1.....\$40.00
Fredonia, 2-yr., No. 1.....50.00
Also other bargains.

Will not be able to supply demand again this season. First come, first served.

Write for our new, very low prices on nursery stock. Big reductions.

ROLLERS NURSERY

Phone: 661 ROGERS, ARK.

COVER ILLUSTRATION.

Syringa Henryi Lutece.

Lutece is the most outstanding variety of *Syringa henryi*, which is a hybrid between *Syringa josikaea* and *S. villosa*. This hybrid is intermediate between the parents, but more like the latter. The flowers of Lutece are similar in all respects to those of *S. villosa* except that the panicle is larger and looser, and the color is a pale lilac.

Syringa villosa is called the Himalayan lilac, or late lilac, the former because of its native habitat and the latter because of the time of flowering, which is about the middle of June. Reaching eight to ten feet in height, it is a shrub of robust habit, with erect stiff branches. It is valued for its dense vigorous growth in addition to the lateness of its bloom. The plant is quite hardy, and its requirements are those customary to lilacs.

SOUTHWESTERN NEWS.

Clyde Burk, prominent Kansas nurseryman from Dodge City, was seriously injured in an automobile wreck February 9, eighteen miles south of Topeka, Kan., on U.S. Highway 75. Mr. Burk was driving north alone in a pickup truck that crashed head-on into a passenger car occupied by three men, employees of the Morrell Packing Co., Topeka, all of whom were killed almost instantly. Mr. Burk is in Vail hospital, Topeka, with a crushed chest and other fractures.

Roy W. Moninger is planning to open a seed and nursery store at Burwell, Neb., this spring.

Paul Johnson has opened a nursery salesyard one-half mile east of Muncie, Kan., on State Highway 32.

Ralph J. McMahon, 6215 Meadow road, Dallas, Tex., is starting a retail nursery to be known as Preston Road Nursery.

A landscaping and tree-trimming business has been started at Dighton, Kan., by Joe A. Skorusa.

The Deer Landscape Co., Neodesha, Kan., was low bidder on two roadside improvement projects in Cherokee county. The bids totaled \$6,228.

Mr. and Mrs. C. A. Chandler, Chandler Landscape & Floral Co., and Mr. and Mrs. Charlie Williams, Williams & Harvey Nurseries, both at Kansas City, Mo., recently enjoyed a winter holiday touring in Mexico.

The southwest has enjoyed one of the most open winters in many years. Little snow and practically no zero weather have enabled nurserymen to dig and plant at intervals all winter.

J. P.

QUALITY STOCK

In Good Quantity

Excelsa Arborvitae,	Each
24 to 30 ins.....	\$1.25
30 to 36 ins.....	1.50
Baker Arborvitae,	
24 to 30 ins.....	1.30
30 to 36 ins.....	1.50
Spiny Greek Juniper,	
15 to 18 ins.....	1.25
Euonymus Radicans	
Coloratus, bare root,	
18 to 24 ins.....	.35
Euonymus Radicans	
Coloratus, bare root,	
2 to 3 ft.....	.50

Write for list of other stock.

See our classified ads on Amur River South Privet, Chinese Elms and Quality Evergreen Liners.

VERHALEN NURSERY CO.
SCOTTSVILLE, TEXAS
Your Profits Grow in Verhalen Plants.

FIELD-GROWN EVERGREEN LINERS

2-year plants, well rooted and furnished with plenty of tops.

IRISH AND ASHFORD JUNIPER LINERS

	Each per 100	Each per 1000
8 to 12 ins.....	12 1/2c	10c
12 to 15 ins.....	15c	12 1/2c
15 to 18 ins.....	20c	17 1/2c

300 or more plants at 1000 rate.

DOUBLE-FLOWERING

PEACHES Red, White, Pink

	Each per 10	Each per 100
18 to 24 ins.....	17 1/2c	15c
2 to 3 ft.....	20c	17 1/2c
3 to 4 ft.....	25c	22 1/2c

NANDINA LINERS

Once transplanted, stocky plants. Each
2 to 4 ins.....5c
4 to 6 ins.....7 1/2c
Stock will be well packed and guaranteed to reach you in good condition. No packing charge.

NAUGHER NURSERY
CHASE, ALA.

Write for our complete price list of lining-out stock.

See our classified ad under the heading of Evergreens in this issue.

T. G. OWEN & SON, Inc.
COLUMBUS, MISS.



CAMELLIAS
New low wholesale prices on field-grown, irrigated camellias. Also azaleas, fruit and pecan trees.

WIGHT NURSERIES, CAIRO, GA.

BLACKWELL NURSERIES



SEMMES, ALABAMA

Azaleas, Camellias, Gardenias
and a General Line of
Ornamental Nursery Stock
Lining-Out Stock Our Specialty
WHOLESALE ONLY

HEAVY 2-YR. SHRUBS FRUIT TREES

SPECIMEN EVERGREENS

LINING-OUT STOCK

SNEED NURSERY COMPANY

P. O. Box 798
Oklahoma City 1, Okla.



SEMMES NURSERIES

AZALEAS - CAMELLIAS
and other choice evergreens.

Wholesale Catalog SEMMES, ALA.

ROSEBUSHES

2-year, Field-grown, Budded Japonica Multiflora.
500 Lots and Over, Each:
No. 1 Grade, 40¢; No. 1½, 30¢; No. 2, 25¢.
100 to 500 Orders, Each:
No. 1 Grade, 45¢; No. 1½, 35¢; No. 2, 30¢.
100 Orders and Less, Each:
No. 1 Grade, 50¢; No. 1½, 40¢; No. 2, 30¢.
Order in groups of 10; we do not break bundles.
We will wrap these Roses for an additional 5¢,
using waterproof Paper and Colored Tag showing
Bloom and Planting Instructions.
TERMS: Cash with order, no charge for packing;
or 25% balance C.O.D. Place your order today
from this ad—Deliveries now or spring.

PINK
Briarcliff
Pink Radiance
Editor McFarland
Columbia
Mrs. Charles Bell

YELLOW
Golden Dawn
Golden Charm
Luxembourg
Golden Ophelia
Sunburst
Yellow Tullman

**VARIEGATED or
MULTICOLOR**
President Hoover
Tullman

RED
Red Radiance
Etoile de Hollande
Poinsettia
Ami Quinard
Rouge Mallorin
Granoble

WHITE
K. A. Viktoria
Caledonia

POLYANTHA
Golden Salmon
Ideal

CLIMBING ROSES
Paul's Scarlet
Red Radiance
Climbing Tullman
Cl. Ruby Tullman
Cl. Mrs. P. S. Du Pont



R.F.D. No. 3

**OSARKS PLANT
FARMS, Inc.**
SPRINGFIELD, MO.

HARDY ENGLISH CHRYSANTHEMUMS

Send for our Wholesale list of stock
plants priced at 25¢ and 50¢ each for
varieties that sold up to \$1.00 each last
spring. You can order as few as one of a
variety; 132 varieties to choose from.
Also 5 varieties of *Rayonnante* and 7
varieties of *Jewel*, and many others.

SPECIAL: 2 each of 50 varieties, our
selection, \$20.00.

DICENTRA SPECTABILIS

3 to 5-eye and up, \$25.00 per 100;
500 for \$100.00.

BUXUS SEMPERVIRENS

Extra-strong rooted cuttings, \$5.25
per 100.

SMITH GARDENS

ROUTE 1, BOX 223
LEWISTON, IDAHO

THORNLESS HONEY LOCUST

	Per 10	Per 100
6 to 8 ft.	\$15.00	\$135.00
8 to 10 ft.	17.50	150.00
1¼ to 1½-in. cal.	22.50	200.00

HACKBERRY, OCCIDENTALIS

	Per 10	Per 100
6 to 8 ft.	12.50	100.00
8 to 10 ft.	15.00	135.00
1¼ to 1½-in. cal.	20.00	175.00

Free packing. Cash, please.

FOREST HILLS NURSERY

3736 HIGHLAND DR.
SALT LAKE CITY 6, UTAH



Wholesale growers of the best
Ornamental Evergreens,
Deciduous Trees
Shrubs and Roses
Write for our current trade list.

THE KALLAY BROTHERS CO.
Painesville, Ohio

OBITUARY

Mrs. Amy Shuey Bookwalter.

Mrs. Amy Shuey Bookwalter, 64,
of Springfield, O., who for over
twenty-five years had been an active
member of the board of directors of
the Berryhill Nursery Co., Spring-
field, and the Willadean Nurseries,
Inc., Sparta, Ky., serving the latter
as chairman of the board of directors,
died February 5 at the home of a
daughter at Columbus, O.

She was the widow of Alfred Guit-
ner Bookwalter, who, until his death
in 1939, was owner and operator of
the Berryhill Nursery Co., the Lynn
Guernsey Farms, Springfield, and the
Willadean Nurseries, Inc.

Mrs. Bookwalter was a member of
the American Forestry Association
and the Ohio Forestry Association,
serving the latter on the executive
committee during World War I. She
was also noted for her work with the
Y.W.C.A., having been a member of
the national board for the past five
years and president of the Ohio and
western Pennsylvania district for
two terms.

Funeral services were conducted at
her residence February 8, and burial
was in Woodland cemetery, Dayton,
O. Pallbearers were F. L. Turner
and W. C. Lytle, vice-presidents of
the Berryhill Nursery Co., and Alvin
S. Kidwell, manager of the Willadean
Nurseries, Inc.

Mrs. Bookwalter's survivors in-
clude a son, Lewis S. Bookwalter,
president of the Berryhill Nursery
Co. and secretary of Willadean
Nurseries, Inc.; two daughters, Mrs.
James M. Levy, of Cincinnati, the
president of Willadean Nurseries,
Inc., and Mrs. Harry Gantz, of Col-
umbus; four grandchildren, and a
brother, Edwin L. Shuey, Spring-
field.

A. T. De La Mare.

Alpheus T. De La Mare, editor of
the Florists' Exchange since he es-
tablished the magazine in 1888, died
at his home, at Oradell, N. J., Feb-
ruary 13 at the age of 97.

Until recent years, Mr. De La
Mare personally directed the affairs
of his magazine. Earlier he was a
well known figure at the meetings of
diverse horticultural organizations.
In 1944, at the age of 91, he received
the founders' gold medal of the Hor-
ticultural Society of New York for
outstanding achievement in horticul-
ture.

Born in Gaspé Basin, Quebec,

LINING-OUT STOCK

	Per 100
Bushy, Field-grown	
Abelia grandiflora, 15 to 18 ins.	\$22.50
Forsythia intermedia spectabilis, 2 to 3 ft.	20.00
	Per 10
Kerria japonica (single), 12 to 18 ins.	\$2.00
Buddleia, No. 1	2.50
Dubonnet	
Charming	
2¼-in. pots, heavy, coldframe-grown	Per 100
Abelia grandiflora	\$ 8.00
Juniperus chinensis pfitzeriana	15.00
Laurus officinalis	15.00
Thea sinensis	20.00
	Per 10
Erica mediterranea	\$1.00

AZALEAS, 2¼-in. pot, heavy, cold-
frame-grown, \$10.00 per 100. Varieties:
Indica Alba, Flame, Bridesmaid, Sweet-
briar, Hatsugiri, Salmon Beauty and
Esmeralda.

ABELIA GRANDIFLORA, rooted cut-
tings, 5¢ each.

We grow many choice items, but
stock is too limited to list. Send us your
want list.

PARRY NURSERIES

SIGNAL MOUNTAIN, TENN.

WE OFFER IN QUANTITY

Abelia Grandiflora, 6 to 12 ins.; 12
to 18 ins., b.r.; 18 to 24 ins., b.r.;
2 to 3 ft., b.r.
White-flowering Dogwood, *Amur*
River South Privet and *Calycan-*
thus, seedlings, 6 to 12 ins.; 12 to
18 ins.; 18 to 24 ins.
White Walnut, seedlings, 12 to 18
ins.; 18 to 24 ins.; 2 to 3 ft.; 3 to
4 ft.
Red Cedar, transplants, and **Flow-**
ering Shrubs.

Write for price list.

THE ARNOLD C. CLARK NURSERY

Phone: D 722
ROUTE 2 McMINNVILLE, TENN.

We wish to purchase . .

Evergreens, Fruit Trees,
Shrubs, etc.

Send your surplus list to

THE PONTIAC NURSERY CO. Romeo, Mich.

GLADIOLI

will pay dividends at the nursery in the sale
of bouquets to visitors, and the flowers bring in
visitors.

1000 mixed, flowering-size bulbs, 12 or more
colors, our collection "N", \$16.50.

Post card brings catalog.

VENNARD'S NURSERY

BOX 394-M SIOUX CITY, IOWA

50,000 DAHLIA ROOTS

We grow many acres of standard cut
flower varieties for the trade.

Write today for wholesale price list.

PAYNE DAHLIA FARMS

ROUTE 5 KANSAS CITY 3, KAN.

HANDBOOK OF FERTILIZERS

By A. F. Gustafson.

Treats source, character, composition
and effects of commercial fertilizers.
Also their application for different
crops. 172 pages. Revised edition, (1944)

Price, \$2.00, postpaid.

AMERICAN NURSERYMAN

343 S. Dearborn St. Chicago 4, Ill.

BOXWOOD

Buxus Sempervirens

True Sempervirens, compact, good color, nicely sheared, with wide spread; to be sold only when the order includes the same number (any size) of the Korean or the Arborescens.

	Each	per 10
14 to 18 ins.	\$4.50	\$4.00
18 to 22 ins.	5.50	5.00
22 to 26 ins.	6.50	6.00

Buxus Koreana and Arborescens

These are wider at the base than they are high.

	Each	per 10
10 to 14 ins.	\$2.00	\$1.50
14 to 18 ins.	2.50	2.00
18 to 22 ins.	3.00	2.50
22 to 26 ins.	3.50	3.00

We have purchased the Shanks Nursery, Cookeville, Tenn., where this stock of Boxwood is located. Our main nursery and office are located at Baxter, Tenn., 8 miles west of Cookeville, off of U. S. Highway No. 70N.

Cash with order, please.

JOHNSON'S NURSERY
BAXTER, TENN.

CORNUS FLORIDA

	Per 100	Per 1000
12 to 18 ins., s.	\$4.00	\$35.00
18 to 24 ins., s.	5.00	45.00
18 to 24 ins., br.	1.50	\$12.00
2 to 3 ft., br.	2.50	20.00
3 to 4 ft., br.	4.00	35.00

CERCIS CANADENSIS

	Per 10	Per 100
3 to 4 ft., br.	\$2.50	\$20.00
4 to 5 ft., br.	4.00	35.00
5 to 6 ft., br.	6.00	50.00
	Per 100	Per 1000
18 to 24 ins., s.	\$3.50	\$30.00
2 to 3 ft., s.	5.00	40.00
3 to 4 ft., s.	7.50	60.00

Write for spring price list.

McMINNVILLE TREE CO.
BOX 125 McMinnville, Tenn.

QUALITY JUNIPER GRAFTS

For Spring, 1950, delivery, from 2 1/2-in. pots on Virginiana understock.

We are grafting *Juniperus virginiana canaerti*, *glauca*, *pyramidiformis* (Dundee), *burki* and *keteleeri*, etc.

PAUL ARTERBURN NURSERY
BOX 72 ST. MATTHEWS, KY.

PRONOUNCING DICTIONARY of Plant Names

64 pages, 3000 names, 25¢ per copy
American Nurseryman Chicago 4.

Canada, February 23, 1853, Mr. De La Mare was educated in Jersey and Guernsey, Channel islands, coming alone to New York, May 9, 1868. He started with D. Appleton & Co. as a compositor and received his training in the printing business under several other employers until 1881, when, with a partner, he bought out a printing plant on Cortlandt street.

December 8, 1888, appeared the first issue of the Florists' Exchange as a sheet of four pages, 7x10 inches. In later years it became a flourishing weekly of approximately eighty pages.

The A. T. De La Mare Co. built up a noteworthy business in printing catalogs for seedsmen and plantmen. It also became one of the leading publishers of horticultural books, both for amateur and professional; the book department has for some years been directed by A. T. De La Mare, Jr.

Dr. William Crocker.

Dr. William Crocker, noted botanist and former director of the Boyce Thompson Institute for Plant Research, Yonkers, N. Y., died February 11 at Athens, O. He had been married a few hours before at Marietta, O., to the former Mrs. Neva Ray Brown Ankenbrand. He was 74 years old.

Born at Medina, O., January 27, 1876, Dr. Crocker graduated from the University of Illinois in 1902 and received his Ph.D. from the University of Chicago in 1906. After two years on the faculty of Northern Illinois State Teachers College he was on the faculty of the University of Chicago until 1921, when he became director of the Boyce Thompson Institute. He had also been acting managing director for the Tropical Plant Research Foundation. He was a member of a number of scientific societies, several of which he had served as an officer.

CONSTRUCTION of the new offices completed, the Mordigan Evergreen Nurseries, San Fernando, Calif., are occupying the new building. There is no change of address.

IN A January issue of the farm, home and garden section of the Sunday Oregonian, was a feature on Edgar L. Kline and his Kilkare lily farm, Lake Grove, Ore. The article told of his start in the lily business in 1930, when he discovered that there were few hybrid types of lilies available and so developed many of his own, until today he has more than 300 varieties of species and hybrid lilies.

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Azalea Calendulacea.	Per 100	Per 1000
Azalea Nudiflora.		
12 to 18 ins., liners	\$ 7.00	\$60.00
12 to 18 ins., br.	10.00	90.00
18 to 24 ins., br., B&B		Each \$0.80
2 to 3 ft., br., B&B		1.00
Acer Rubrum.		
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Cornus Florida.		
Tilia Americana.		
Liriodendron Tulipifera.		
Quercus Alba. White Oak.		
Quercus Phellos. Willow Oak.		
Quercus Rubra. Red Oak.	Each	
3 to 4 ft., br.	\$0.20	
4 to 5 ft., br.	.30	
5 to 6 ft., br.	.40	
Rhododendron Maximum.		
Kalmia Latifolia.		
Ilex Opaca.	Per 100	Per 1000
3 to 6 ins., s.	\$2.00	\$15.00
6 to 9 ins., s.	3.00	25.00
9 to 12 ins., s.	4.00	35.00
12 to 18 ins., s.	5.00	45.00
18 to 24 ins., s.	6.50	60.00
Tsuga Canadensis.		
3 to 6 ins., s.	.75	6.00
6 to 9 ins., s.	1.50	10.00
9 to 12 ins., s.	2.50	20.00
12 to 18 ins., s.	4.00	35.00
18 to 24 ins., s.	6.00	55.00

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THE Southern
Nursery & Landscape Co., Inc.
Est. 1872
WINCHESTER, TENNESSEE

Phone-Write-Wire for Quotations

NATIVE EVERGREENS

	Per 1000
Ilex Opaca , 4 to 8 ins.	\$20.00
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Rhododendron Maximum , 4 to 8 ins.	25.00
Tsuga Canadensis , 4 to 8 ins.	20.00

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30,000 Potted Taxus Liners

1, 2 and 3-year.
Wiegela Eva Rathke, transplants.
Viburnum Rhytidophyllum.
HUMPHREYS LANDSCAPE SERVICE
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HARDY UPLAND-GROWN

FRUIT TREES

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STANDARD PEAR
STANDARD APPLE
PLUM, APRICOT, QUINCE
SWEET and SOUR CHERRY
PEACH, 1-YEAR
SHRUBS — ORNAMENTALS

Let Us Quote You Attractive
Wholesale Prices on Your Spring
Requirements.

Write for Complete Trade List.

MALONEY BROS. NURSERY CO., Inc.
DANSVILLE, N. Y.

GRAPEVINES

Heavy, well rooted.

2-yr. Concord and Niagara.
Hydrangea P.G.
Peach

Write for prices.

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WE OFFER... Our General Line of SMALL FRUIT PLANTS

Let us quote on your
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Bridgman, Michigan

SURPLUS STRAWBERRY PLANTS

Dunlap, Blakemore, Aroma and
Tennessee Beauty
\$7.00 per 1000

Streamliner Everbearing
\$17.50 per 1000

ANNA STRAWBERRY NURSERY
F. G. Anderson, Prop.
ANNA, ILL.

INDIANAPOLIS ELECTION.

The Indianapolis Nursery and Landscape Association held its annual banquet meeting February 15 at the Broad Ripple post of the American Legion. After a delicious turkey dinner a musical program under the jovial guidance of E. B. Palmer was presented. The highlight of the entertainment program was Miss Patti Brown, who sang several songs and is a young woman with a delightful personality and a marvelous voice.

H. N. ("Mike") Engledow, of Midwestern Tree Experts, the retiring president, introduced the other retiring officers, who were E. C. Zaring, Sunnyview Gardens, vice-president; David Burkhart, Burkhart's Home Landscaping, secretary, and Edward Maschmeyer, Maschmeyer Nursery, treasurer. He then introduced the new officers, who are James A. Maschmeyer, president; Thomas Hobbs, vice-president; Scott McCoy, secretary, and Garnet Hill, treasurer.

E. B. Palmer read a letter from Mr. Sallee, director of the Indianapolis park system, thanking the association for its recommendations and support in freeing the park board from some of its political stigma. This was one of the year's outstanding accomplishments of the association. Other noteworthy activities included participation in the Indianapolis home show. The group helped the yard parks committee establish a model garden yard in Military park in downtown Indianapolis, where it stands as a living example of a small lot well landscaped. Help was also given to the International Dairy Exposition in decorating the show, and a series of weekly instructive articles was run in the Indianapolis News.

James A. Maschmeyer.

CENTRAL MICHIGAN MEETS.

The monthly meeting of the Central Michigan Landscape and Nurserymen's Association was held February 15 at the Horticulture building, Michigan State College. James I. E. Ilgenfritz, president of the American Association of Nurserymen, was guest speaker and moderator of the following discussion program on methods of increasing sales of nursery stock. President Bernard Ward introduced guests who included special delegations from both Grand Rapids and Detroit.

F. L. O'Rourke.

ALLEN'S NURSERY, on Franklin court, La Porte, Ind., will open a retail shop.

FRUIT TREES

Apple, 1 and 2-yr., Dwarf and Standard

Pear, 1 and 2-yr., Dwarf and Standard

Plum, 1 and 2-yr.

Sweet and Sour Cherry,
1 and 2-yr.

Quince, 2-yr.

Apricot, 2-yr.

Peach, 1-yr.

Write for our wholesale list.

KELLY BROS. NURSERIES, Inc.
DANSVILLE, N. Y.

We Offer

FOR SPRING AND FALL

An extra-fine lot of
Peach — Plum — Grape — Apricot
Cherry, Sweet and Sour
Can furnish carloads.

Also Shrubs, Evergreens and Shade
Trees.

Send us your want list.

COMMERCIAL NURSERY CO.
Nicholson Bros. DECHERD, TENN.

Chipman's RED RHUBARB

Large, No. 1 divisions.
The kind you like to get.
\$8.00 per 50; \$36.00 per 300.
Cash with order, packing free.
Packed in wire-bound citrus crates.
24-hour service.

KEELER'S GARDENS
SIOUX FALLS, SOUTH DAKOTA

RASPBERRY PLANTS RED - BLACK - PURPLE

C. H. BENEDICT
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STRAWBERRY PLANTS TOP QUALITY

Prices on request.

CHATTANOOGA PLANT FARM
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SPECIAL PRICES
on
APPLE, PEACH, CHERRY
L. R. TAYLOR & SONS
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MICHIGAN LANDSCAPE MEN HOLD ANNUAL MEETING.

The annual business and educational session of the Landscape Association of Michigan was held at the Women's Clubhouse, Ferndale, the afternoon of February 14, and that same evening the annual banquet was celebrated at the Four-Decker Supper Club, Detroit.

President George Young opened the business session by calling for a report of the exhibition committee, which has been working on plans for a large garden exhibit at the Detroit garden and flower show to be held at Detroit March 25 to April 3. Plant material for this exhibit is now being forced in greenhouses.

Prof. F. L. O'Rourke, department of horticulture, Michigan State College, was introduced by President Young to serve as chairman of the educational program. The first speaker was Prof. Henry L. R. Chapman, extension horticulturist of the college, who illustrated his excellent lecture on "Water Gardens" with Kodachrome slides of lotuses, water lilies and other water and bog plants.

Dr. Donald P. Watson, department of horticulture, Michigan State College, spoke on "Maintenance of Perennials" and showed slides of perennial borders to illustrate his points. Those taken at Vancouver, B. C., were particularly interesting from the standpoint of good care and harmony.

Mrs. Helen Yearsley, proprietor of Tranquil Gardens Nursery, Detroit, exhibited slides of tuberous-rooted begonias and showed numerous ways in which these colorful blooms may be used by nursery and landscape concerns.

Dr. Carter M. Harrison, department of farm crops, Michigan State College, spoke on "Lawns" and indicated that Michigan was a state admirably suited to growing the fescues as lawn grasses, with Kentucky bluegrass a good second. Dr. Harrison advocated an attempt to educate the public toward the advisability of showing only the seeds of the desired grass species rather than complex mixtures. He also suggested that all lawns would do better if cut relatively high, about two inches, and more frequently than is usually the case.

The president of the American Association of Nurserymen, James I. E. Ilgenfritz, was the last speaker on this program. He emphasized the use of nursery stock by landscape men to control climate, both by creating cooler areas in summer and by affording wind protection in winter.

F. L. O'Rourke.

STRAWBERRY PLANTS

Certified

Grown on new land in isolated area. 30 acres of the largest and thriftiest plants we have ever grown. We are in a position to make you attractive prices on the following varieties.

Blakemore
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We will ship direct to your customers if you desire. You're welcome to come and see our fields. Let us quote you on your entire needs.



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NORTHERN-GROWN GRAPEVINES

CONCORD and FREDONIA

No. 1, 2-year, strong, well rooted vines

\$6.00 per 100 or \$50.00 per 1000

STRAWBERRY PLANTS in Premier and Robinson.

Write for prices in quantity lots.

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ROBERTS NURSERY CO.

Wholesale growers of Dependable

FRUIT TREES

We solicit your list of wants.

DANVILLE, N. Y.

SMALL FRUIT PLANTS

Thirty varieties of Grapes, including the

GOLDEN MUSCAT

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Currants and Berry plants

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CULTIVATED BLUEBERRY PLANTS

Certified, stunt-free, Guaranteed true-to-name and age. Well branched, with fruit buds. Can ship to any state. Write for prices and sizes. Descriptive folder.

JOSEPH G. O'NEILL & SON
P. O. BOX 32-A
MOORESTOWN, N. J.

FRUIT TREES

HARRISON BROTHERS NURSERIES

G. Hale Harrison, General Manager
BERLIN, MARYLAND

FRUIT TREES

One-year-old Napoleon, Windsor and Black Tartarian Sweet Cherry Trees. Please write for quotations.

EDWARD BACON & SON
DANVILLE, N. Y.

AMERICAN ASSOCIATION OF NURSEYMEN

RICHARD P. WHITE,
EXECUTIVE SECRETARY



636 SOUTHERN BLDG.,
WASHINGTON 5, D. C.

GOVERNOR BOWLES URGES "PLANT CONNECTICUT."

Connecticut was noted as the first state to support the program to "Plant America," when Governor Chester Bowles issued a statement, February 4, urging citizens of the state to join in supporting the program to "Plant Connecticut to Help Plant America."

The following Monday, February 6, R. P. White, executive secretary of the American Association of Nurserymen, flew from Washington, D. C., to Hartford, Conn., to congratulate the governor on his interest in the tree-planting campaign. He was accompanied on his visit to the governor by W. B. Young, dean of the college of agriculture of the University of Connecticut, and Peter Cascio, of West Hartford, Conn., A. A. N. executive committeeman from the eastern region.

Luncheon was held on that day at the Wampanoag Country Club for representatives of organizations interested in the drive. Dean Young, a member of the state soil conservation committee, declared that the program fitted in with the conservation objectives. He stated, "Plant America" is designed not only for soil and water conservation, but for the beautification of America."

Dr. White congratulated the governor as head of the first state to support the program. He explained its objectives at the luncheon, with its dual goal of planting and conservation. "In the past, in many parts of the country, we turned gardens into deserts. But we have the skill to change deserts into gardens."

The governor was expected to appoint a committee to carry forward the planting program in the state. The text of his proclamation follows:

Conservation of our natural resources is one of the foremost problems facing Connecticut, as well as the United States. The fertility of our soil, our water supplies, our food and our wildlife are dependent on measures taken to conserve the land. And a green and flourishing countryside has always been a great source of enjoyment and wholesome recreation to the citizens of Connecticut.

In our state and elsewhere in the country, land has in the past been abundant. Men in those days were able to ravage the land and move on to more virgin territory. This led to abuse by uneconomic cut-

ting of forests; denuding much other land of both vegetation and fertility; reducing our water resources, and leaving eroded, dry, unsightly landscapes.

Most of these blighted and barren areas can be made green and beautiful if all citizens fully realize their moral obligations to others in the ownership of private, civic or state land. Our forests, our farms, our cities, our roadsides, our church and school properties, our home and factory grounds, should be planted with trees, shrubs and grasses wherever the need exists. In our cities, trees and shrubs can filter dust, absorb noise, temper climate, provide better and more natural living.

Much of the future progress of our state, and its rare natural beauty rests upon the extent to which we replant and care for all the land. Our state can produce more if we strive to make and keep it beautiful. Everyone will benefit in equal measure.

INTRODUCING Hagerstrom's New Patented (Pat. Pend.) Everbearing Strawberry

(Wayzata x Fairfax)

Large berry, heavy fruiter, good quality and substance, reproduces freely. A great contribution to commercial and home garden strawberry growers.

Sold only under contract and royalty restriction for propagation for sale. A limited number of potted plants available this season.

Historical and descriptive price list upon request.

HILLCREST GARDENS ALBERT LEA, MINN.

Authorized agent under contract for exclusive potting rights of Hagerstrom's patented strawberry.

VUYK VAN NES BOSKOOP HOLLAND

Originators of Azalea Vuykiana.
Growers of choice Nursery Stock.

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"BRODLEAF" HOLLAND PEAT MOSS

Fully Matured—Packed Dry—Saves Freight
20 LARGE 4-bu. BAGS (2 color).....\$29.00
30 MEDIUM 2-bu. BAGS (2 color).... 24.00
10 Large Standard Bales, each..... 4.00

Ask for delivered cartload prices on:

STANDARD BALES — EXTRA BALES — JUMBO BALES

HALF MOON MFG. & TRADING CO., Inc.
90 West Street New York 6, N. Y.

Quality Holland Bulbs

C. WESTERBEEK & SON, Inc.

Wholesale Growers and Exporters.

Sassenheim 44 Whitehall St.
Holland New York, N. Y.

Write for price list.

Therefore, as governor of the state of Connecticut, I hereby proclaim a program and urge that each man, woman and child throughout the state assume individual responsibility to conserve the natural resources of our state, whether they be private or public property, and that, wherever possible, bare land be planted with vegetation.

I also urge local governments, chambers of commerce, farm organizations, garden clubs and other civic groups, the churches and schools, and the press, radio, motion picture and other industries to cooperate fully in observance of the "Plant Connecticut to Help Plant America" program as soon as possible by means of local committees and permanent, planned cooperative endeavors based upon local needs.

I urge that the proper agencies of the state assist in informing the public of the urgent need for conserving our natural resources by planting Connecticut, wherever the need exists, and to give guidance and council to the public on this subject.

FORMAL opening of Riggs Nursery & Landscape Co., Longview, Tex., was held January 29. The new firm's mailing address is 737 Green street. Owner Leonard Riggs was formerly with R. Lacy Nursery, Longview.

MALLING STOCKS

We offer Malling Stocks I, II, VII, IX, XVI and Quince A, B and C from stool beds originally supplied by East Malling Research Station. Guaranteed true-to-type and free from all disease.

Prices F.O.R., Liss Station, England.
Per 100 Per 1000
Firsts, 6 to 12 mm.....\$5.00 \$50.00
Seconds.....5.50 \$50.00

Also all the latest English varieties of fruit trees such as:

APPLES—Winston, Sunset, Laxton's Advance, Laxton's Epicure, Laxton's Fortune, George Neal, James Grieve, Tydemann's Early Worcester (mostly bred from Cox Orange).

PEARS—Laxton's Superb, Improved Fertility.

PLUMS—Early Laxton, Marjories Seedling.

All on stocks recommended by East Malling Research Station.

Prices on application.

BLACKMOOR ESTATE

The Manager, Fruit Office
LISS, HAMPSHIRE, ENGLAND

WILLIAM VAN HERREWEGHE

(formerly W. E. & R. Van Herreweghe)

Export Nurseries

SERSKAMP, near GHENT, BELGIUM

FRUIT TREE STOCKS
EAST MALLING TYPES
ORNAMENTAL SHRUBS
FOREST PLANTS and Seedlings
ROSES and EVERGREENS

Prices on application.

Maurice C. Ravensberg

Boskoop, Holland

Reliable firm for general Nursery Stock and Belgian plants.

Catalog on application.

WEST VIRGINIA MEET.

[Continued from page 15.]

band of four boys who gave a well received musical program.

Prof. Ray S. Marsh, head of the department of horticulture, West Virginia University, was introduced by President John W. Young, Young Nurseries. Professor Marsh told the nurserymen that the university was planning a program of education and research to develop the nursery industry in the state and requested them to submit their problems to him so the experimental station could develop a practical program of research.

During the course of the meeting, C. W. Shackelford, in charge of rural development, Beckley chamber of commerce, was introduced. He outlined the work he was attempting to carry out and stated that it included a community scoring plan which acknowledged the value of a well landscaped home.

At the business session Friday night, a committee consisting of Arthur Gold, Gold Chestnut Nursery, Cowen; Fred Wildern and Hans Dieckmann, John Dieckmann & Sons, Elm Grove, and Norman Cole, Cole Nurseries, Bluefield, was appointed to bring to the attention of governmental agencies of the state the unfair competition the nurseries were receiving from the below-cost sale and free distribution of nursery stock. Prior to the appointment of the committee, the problem was discussed, and most members told of incidents known about personally of some governmental agencies' distributing plants for game food and reforestation purposes. It was pointed out that all agencies were not equally responsible, and that, if the plants were distributed according to the intent and purpose of the law, there would be little complaint. Also, it was noted that some agencies had recently strengthened their inspections to guarantee that the plants were being used strictly as intended by law.

Other business included selecting Bluefield as the site of the summer meeting and the Mingo oak as the tree from which a gavel is to be made to present to Richard P. White, executive secretary of the American Association of Nurserymen. Wood from the halesia was the second choice for the gavel.

The final phase of the meeting was the visit to Young Nurseries, Bickmore, owned and operated by President John Young and situated on Sycamore creek in Clay county, seventeen miles from Gauley Bridge. There along this creek and a tributary, Donegar, on which is a site of

HEAVY, FIELD-GROWN, BARE-ROOT STOCK

FOR LINING-OUT

Since the first of the year we have decided to offer from our own nursery rows the following twice-transplanted, bare-root stock, all heavy field-grown. This stock will make money fast for the buyer as it will grow into specimens in one to two seasons. This is one of the most exceptional offers that the Sherwood Nursery Co. has had the pleasure of making, and this is just the type of material for which you have been looking.

Chamaecyparis lawsoniana erecta glauca (Blue Column Cypress) (Allumi)

A cone-shaped cypress, erect in growth and with vertical foliage of turquoise-blue. It is a valuable help in landscape plantings and for that reason is always a popular tree. Per 100 Per 1000
8 to 12 ins., twice transplanted, B.R. \$20.00 \$160.00
12 to 15 ins., twice transplanted, B.R. 25.00 200.00

Chamaecyparis lawsoniana fletcheri (Fletcher Cypress)

A narrow pyramid in form, very neat and tidy. Compact in growth with full soft appearing foliage of blue-green color effect. On account of its erect, close habit of growth it is especially well adapted to small homes and grounds. 25.00 200.00
8 to 12 ins., twice transplanted, B.R. 35.00 280.00
12 to 15 ins., twice transplanted, B.R.

Chamaecyparis nootkatensis glauca compacta (Compact Blue Alaska Cypress)

A distinctive form of the Alaska Cypress. Has compact dense foliage of charming blue-green color. Semidwarf, neat and conical in form needing little or no pruning. Very hardy and rare. It belongs to that somewhat restricted and delightful group of trees that retain their shapely beauty without considerable care and pruning. 18.00 144.00
6 to 9 ins., twice transplanted, B.R. 25.00 200.00
9 to 12 ins., twice transplanted, B.R.

Libocedrus decurrens (Western Incense Cedar)

A shapely pyramid in form, with fine, fanlike foliage, that is dense, and a beautiful glossy green. The foliage is also delightfully fragrant. The perfect symmetry of growth from the ground to tip of the tree is a characteristic that places decurrens almost in a class by itself, the only other conifer that is comparable being *Sequoia gigantea*. Very hardy. 18.00 144.00
6 to 12 ins., twice transplanted, B.R. 25.00 200.00
12 to 18 ins., twice transplanted, B.R. 35.00 280.00
18 to 24 ins., twice transplanted, B.R.

Ligustrum sinense (Chinese Privet)

An upright, rapid growing, semievergreen. Stands shearing well. Thick, luxuriant, bright green foliage. Leaves small, branches slender. Shrub to 8 feet. A fine hedge subject. 15.00 120.00
12 to 24 ins., twice transplanted, B.R.

Tsuga canadensis (Canada Hemlock)

A well known conifer of graceful, pleasing habit of growth, and regarded by some landscape architects as one of the best of conifers. Perfectly hardy. 36.00 288.00
12 to 15 ins., twice transplanted, B.R. 45.00 360.00
15 to 18 ins., twice transplanted, B.R.

We can supply all items in 1000 lots at the date of the publication of this advertisement, but suggest that a wire or air mail letter may save you disappointment. Terms: Cash, F.O.B. Portland, Ore., on this B.R. stock, 25 per cent will reserve stock for later delivery. We reserve the right to substitute the next nearest grade if sold out of the grade ordered. Most of this stock is not listed in our catalog, and this offer holds for the spring, 1950, selling season only.

We have many other items in lining-out stock.

SHERWOOD NURSERY CO.

Evergreens — Propagators and Growers — Wholesale

141 S. E. 65TH AVENUE

PORTLAND 16, OREGON

The Homestead Nurseries

H.G. Benckhuysen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials — Quality Stock in All Leading Varieties. Trade catalog on request.

DEVELOPING NURSERY SALES AND DISPLAY GROUNDS

\$1.00 per copy.

AMERICAN NURSERYMAN,

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Chicago 4. Ill.

Holland-Grown Nursery Stock

Shrubs and Trees, including liners.

Rhododendrons and Azaleas
Hardy Perennials
Peonies

NOVELTIES IN ALL LINES
Ask for wholesale catalog.

F. J. Grootendorst & Sons

BOSKOOP, HOLLAND

Growers and exporters since 1903

EAST MALLING CLONAL FRUIT TREE STOCKS

STILL AVAILABLE

East Malling II and Myrobalan B.

ENGLISH VARIETIES
OF GOOSEBERRIES

Layers for lining-out, \$20.00 per 100.

Gold Coin, Cousen's sdg.,
Leveller, London and Lancer.

MANTEN'S NURSERY,
WHITE ROCK, B.C., CANADA

rugged beauty, the Youngs produce hemlock in great quantity. The nurserymen were given a most hospitable welcome by the Youngs, and Mrs. Young served coffee and cake while the members warmed themselves before a large wood fire before departing for home.

LONG ISLAND SCHOOL.

[Continued from page 18.]

hollow cone spray may be converted into a solid cone by making a hole in the center of the vortex plate, the hole being the same size as that of the disk plate. Depth of the eddy chamber controls the shape of the cone of spray. By variation of washer thickness one can have either a flat cone for close work or a deep cone for greater distance. Many people do not know that simple adjustments such as these add greatly to the usefulness of the conventional spray nozzle.

The first session of the afternoon workshop on landscape design was devoted to the analysis of the principles of design and their application to foundation plantings. Points stressed were the focusing of attention on the doorway, simplicity in plant selection, use of proper scale and means of creating variety and interest and yet retaining balance. In this discussion the principle of sequence was illustrated with use of a modified V. The use of taller masses on the outside and grading down to lower ones in the center leads the eye toward the doorway, which is the logical focal point.

Design principles in garden planning were the subject of the second session. Formal versus informal lines in planning were discussed. Effective use of the pencil in making simple quick sketches of plans, elevations and perspectives for selling landscape jobs was demonstrated. The technique shown involves the use of a broad-pointed pencil in easy-flowing lines. Detail is minimized, and scale and mass outlines are emphasized. The values of texture, color, enclosure and utilization of vistas were also discussed.

The nursery problem workshop devoted itself to discussing problems in propagation. Topics of the day were humidity control, types of propagating houses, growth regulators, cuttings, dormancy and sowing practices. Four hours of the afternoon did not exhaust the possibilities of this kind of shoptalk. Although no definite conclusions were sought or reached, there was a stimulating exchange of ideas and experiences in propagation.

WEEKS ROSES

"California-grown — Quality Known"

BUSHES — CLIMBERS — TREES

Always a fine selection in both patented and standard varieties. All the leading hybrid teas and an exceptionally good list of climbers and floribundas.

Write anytime for information — your inquiry is welcome and will receive prompt, personal attention.

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THE SHERWOOD RED AZALEA

is taking the country by storm. Happy customers everywhere, and many repeat orders. The most magnificent, hardy evergreen azalea known. Don't be caught short on this fast-selling item. Stock is moving rapidly. See our wholesale trade list for description.

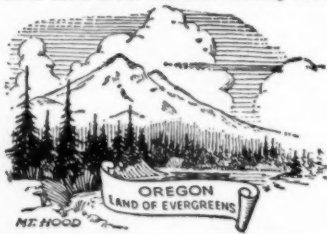
Fine, budded specimen plants, 6 to 9 ins., shipped bare-root and carefully packed, \$43.00 per 100.

Also this great favorite —

SHERWOOD ORCHID AZALEA

Fine, budded specimens, 9 to 12 ins., shipped bare-root and carefully packed, \$51.00 per 100.

Order now for spring delivery. Cash only. We have many items in lining-out stock listed in our wholesale catalog available to the trade.



ALSO CHINESE PINE

Fine B&B Specimen Trees

	Each
18 to 24 ins., B&B	\$0.81
24 to 30 ins., B&B	1.22
30 to 36 ins., B&B	1.54

F.O.B. Portland Ore.

Order today.

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EVERGREENS — Propagators & Growers

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141 S. E. 65th Ave., PORTLAND 16, ORE.

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The concluding workshop session dealt with soil management and soil treatments, pruning and shaping, balling, burlapping and bare-root transplanting. The discussions developed largely on the mechanics of transplanting plants of landscape size

and the usefulness and the degree of retardation involved in the ball versus bare-root system. It was mentioned that balling, as first practiced, left many roots behind in the soil but kept intact and uninjured the remainder of the plant.

The second topic that was enlarged upon was the degree of necessary pruning on newly transplanted material. One observation was that with fast-growing deciduous stock a cutback of two-thirds was permissible and desirable and that clients should be educated to this. In pruning trees, the amount of cutback to balance root loss is in part dependent on the ability of the plant to regenerate. In thick-barked trees, such as oak and elm, latent buds in wood over 5 years old are slow to start up. In thinner-barked trees, like dogwood and holly, a cutback into 10 to 15-year wood is possible with good regeneration.

The last hour of the workshop was spent in the greenhouse seeing the firsthand results of an experiment in selection of cuttings. Cuttings identical in appearance and size were taken from both old and young plants of various species. The cuttings from young vigorous stock rooted practically 100 per cent, but older cuttings varied considerably, from two per cent up to twenty per cent.

Cuttings from 40-year-old *Taxus cuspidata brevifolia* gave one to two per cent rooting, while those from 3 to 4-year-old plants gave 100 per cent rooting. Cuttings from 12-year-old *Ilex glabra* gave twenty per cent rooting, while those from 4-year-old plants rooted 100 per cent. Cuttings from 25-year-old *Ilex opaca* rooted poorly, while those from 5 to 7-year-old plants gave ninety-five per cent rooting.

Despite the fact that the paired sets of cuttings appeared identical and that all treatments were identical, there was a marked difference in percentage of rooting.

PLANT NOTES.

[Continued from page 30.]

in praise of one plant, *Saxifraga cordifolia*, for which he and his client showed much enthusiasm.

Because we in America are prejudiced against saxifrages in general, the entire genus has a poor reputation, and, as a consequence, few are used in gardens. This bad name is not entirely unearned, of course, for there are many difficult kinds in the group, especially in the *kabschia*, *porphyron* and *dactyloides* sections. But after putting aside the incorrigibles, we still have a host of good and fairly easy kinds left, among which most of the *bergenia* (*megasea*) section are to be numbered. In fact, all the *bergenias* that I know are easily grown in ordinary garden soil, either in sun with plenty of moisture or, in the absence of an abundance of moisture, in about half shade. And they

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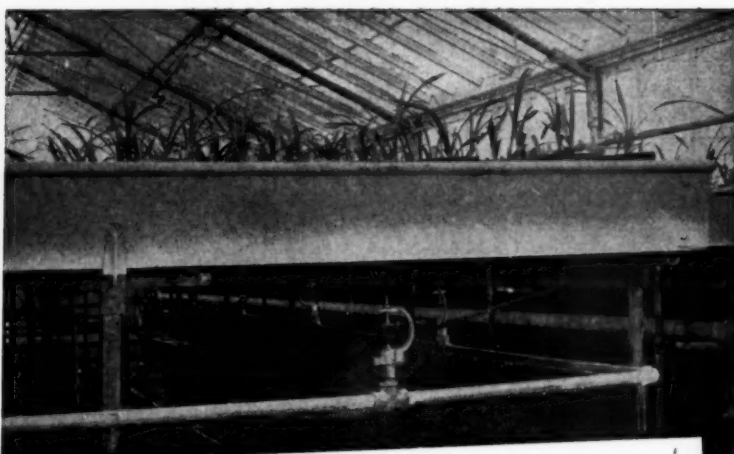


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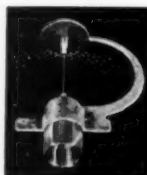
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do appreciate leaf mold in either case.

Our present plant makes quite bold clumps of broad heart-shaped leaves, fleshy and wavy-margined, from which spring short scapes which are a foot tall or slightly higher in rich soil with moisture, bearing noddling cymes of bright rose flowers in early spring, usually commencing here in April and lasting close to two months. It is a splendid plant for massing in moist places, as it was used by the gentleman referred to in the first paragraph, and for a ground cover in part shade.

Although growing saxifrage from seeds is considered a gamble by most gardeners, it is not, if any, more difficult than growing many other subjects that one tackles without any misgivings whatever. And saxifrage seeds may be handled in the ordinary way with every assurance of success if they are given the care that all tiny seeds need. The plan that I like best is to sow the seeds on the surface of finely sifted soil in autumn, either in pans or pots. These are placed in a glass-protected frame during the winter and brought into a cool house in March or early April.

And thereby, I suspect, hangs a tale, a tale of success on this gardener's part and one of failure when frequent division is followed. In the face of advice to the contrary (I read, for instance, in one of our most quoted authorities that monkshoods should be "divided about every three years"), I am convinced by experience and observation that it is a mistake to disturb the plants as long as they are doing well, and that should be for several years, perhaps ten or more. If one followed the advice to divide every third or fourth year, he would never know how lovely monkshoods could be, for it takes them that long to get down to the business of producing a bountiful crop of flowers. The napellus varieties, which are dark blue in the type, blue and white in variety bicolor and very dark blue in Sparks' variety, were the ones used, because, as the gardener told me, they were the ones that endured heavy shade with the most grace. The last-named seemed especially good, reaching a height of five feet or more, instead of the usual four feet.

OWNER of the newly opened Worden's Florist-Nursery, Tucson, Ariz., is Fred V. Worden, former owner of the Santa Rita Florists, now operated as Pages Flowers. He has ten acres under cultivation and a retail florists' shop.

CENTRAL CALIFORNIA DISCUSSES ROSES.

The rose was the main subject for discussion when the Central chapter of the California Association of Nurserymen met at Pland's, San Lorenzo, February 9.

The program began with the showing of a colored movie with a sound track prepared by the California Spray-Chemical Corp., Richmond, which told how to plant, care for and spray roses. It was prepared for the amateur and is to be shown before garden clubs and similar meetings. It was well prepared and accurate, containing valuable information for the retail nurseryman selling roses and spray materials to the home gardener. John Winstel, of the company, presented the film, which was taken at the grounds of John Paul Edwards, well known rosarian of the bay area and consultant for the American Rose Society.

After the completion of the film President Herbert Plath, H. Plath & Sons, Inc., San Francisco, turned the meeting over to Ray Hartman, Leonard Coates Nurseries, Inc., San Jose, who acted as moderator for a panel discussion of roses. Assisting him were O. H. Stocker, Leonard Coates Nurseries, Inc.; Clarence Perkins, Jackson & Perkins Co., Pleasanton; Mr. Edwards, and Mr. Winstel.

Among the points discussed were the time to apply fertilizers, as well as the kinds to use and the value of the various types; depth of planting budded roses under bay area conditions and the advantages and disadvantages of deep and shallow planting; the use of roses for roadside plantings; spraying; when and why to fumigate soils for rose plantings; care of roses in cans; how to keep newly received heeled plants dormant and what treatment to give the plants if they begin to grow while heeled in; value of sulphur to rose soils and the value of dusting sulphur in the control of disease; methods of selecting roses for the All-America awards; methods of acidifying rose soils with materials other than soil sulphur, and the starting of dried roses.

John Snyder, Jackson & Perkins Co., secretary, made a report on the directors' meeting held before the chapter meeting, at which most of the business for the chapter was conducted. Included in his report was a request that any member refrain from committing the chapter to any obligations unless that member was specifically authorized to do so. He reported that the governor of the

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CHESTNUT Each Each
American Sweet per 10 per 100
10 8 to 10 ft., branched... \$1.35 \$1.25
35 6 to 8 ft., branched... 1.20 1.10
65 5 to 6 ft., branched... 1.00 .90

BIRCH
Pyramidal European White
(Betula alba fastigiata)
90 4 to 5 ft., branched... 1.00 .90
70 3 to 4 ft., branched... .85 .75
40 2 to 3 ft., branched... .70 .60

CHERRY, Flowering
Kwantan
970 2 to 3 ft., 1-year whips .65 .60

CRAB APPLE, Flowering
Bechtel's
540 18 to 24 ins.... .45 .40
Atrosanguinea (Carmine Crab)
80 4 to 5 ft., branched... .80 .70
20 3 to 4 ft., branched... .65 .55

Red Silver
90 3 to 4 ft., branched... .65 .55
60 3 to 4 ft., whips... .55 .40
30 2 to 3 ft., whips... .45 .30

HAWTHORNE (Crataegus)
Paul's Scarlet
470 3 to 4 ft., whips... .65 .60
430 2 to 3 ft., whips... .45 .40

LOCUST (Robinia) Each Each
Globe or Umbrella per 10 per 100
90 Single-budded heads... \$1.75 \$1.50
Pink-flowering Moss (Robinia hispida)
130 No. 1, Double-budded
heads, top-worked on
4 1/2-ft. stems... 2.00 1.75

MAPLE (Acer)
Red (Acer rubrum), special budded
250 3 to 4 ft., whips... .65 .60
Schwedler (Acer schwedleri)
3200 4 to 5 ft., whips... .75 .70
4800 3 to 4 ft., whips... .65 .60

Soft or Silver (Acer dasycarpum)
40 8 to 10 ft., 1 to 1 1/4-in.,
branched... 1.35 1.25
400 6 to 8 ft., 3/4 to 1-in.,
branched... 1.10 1.00

160 5 to 6 ft., 5/8 to 3/4-in.,
branched... .85 .75

Sycamore, Purple Leaf
(Acer pseudo-platanus)
70 6 to 7 ft., whips... 1.00 .90
60 5 to 6 ft., whips... .80 .75
160 4 to 5 ft., whips... .60 .55
150 3 to 4 ft., whips... .45 .40

PLUMS, (Ornamental Prunus)
Blireiana
120 6 to 8 ft., branched... 1.10 1.00

Cistena
80 5 to 6 ft., branched... .85 .80
235 4 to 5 ft., branched... .75 .70
80 4 to 5 ft., whips... .60 .55
215 3 to 4 ft., whips... .50 .45
30 2 to 3 ft., whips... .45 .40

Triloba, Peach root
100 4 to 5 ft., branched... .85 .80
500 3 to 4 ft., branched... .70 .65
100 2 to 3 ft., branched... .55 .50

WILLOW (Salix)
Babylonica, Weeping
150 5 to 6 ft., branched... .90 .85
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state would proclaim February 12 to 22 as Tree-planting week this year. These are the same dates as last year, and it is reported that those nurserymen who actively pushed Tree-planting week in their communities felt it well worth the effort. Also the governor will proclaim March 7 as Arbor day, and everyone was urged to cooperate, for last year it too was quite successful in those areas where an effort was made to bring it to the attention of local groups.

The directors put on the agenda for another time the request from American Airlines, Inc., to show a movie on use of airplanes for shipping such bulky freight as nursery stock. The board of directors of the state association will hold its annual meeting at Oakland April 20 and the members were asked to advise the chapter secretary if they had any matters to be presented. Since James Clarke, W. B. Clarke & Co., San Jose, will be away at the time of the state directors' meeting. John Edwards, of the John E. Edwards Nursery, Palo Alto, will serve as alternate.

The Call-Bulletin had invited the chapter to landscape a pool at the children's party which the paper is sponsoring, and it was decided that the members of the chapter as individuals furnish the plants. The plants will be arranged by the students of the horticultural classes of the College of the City of San Francisco under the direction of Prof. Harry Nelson. The group will also furnish plants for the San Francisco Examiner display at the Oakland flower show.

A progress report was made for the committee recently appointed to assist in the garden clinics. Ray Hartman reported for Harold Esch, chairman of the committee, that a garden clinic was being organized at San Jose. As it is officially sponsored by the San Jose Herald and is being actively supported by the local camellia society, the office of the county agricultural commissioner and the county agricultural extension service, the local nurseries will keep much in the background. The City Auditorium has been secured for free meetings, and the local radio station will broadcast at least a half hour of the actual meeting and give it other publicity.

Herman Sandkuhle, Sunset Nursery Co., Oakland and Danville, told of the Oakland flower show promotional activities by Piedmont area nurseries. These firms felt last year's promotion held a great deal of value and will repeat the promotion this year. He offered to give any local groups information on the pro-

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cedures followed a year ago and the helpful changes which would be adopted this year.

Jack McDonnell, chairman of the membership committee, reported his committee's plan for reaching prospects and interesting them in the association. Some members will be called on to bring nonmembers to that next meeting as guests of the chapter. It was felt that prospects would be more at ease at their first meeting with a personal sponsor.

Guests included Peter Woodfield and Leo Silva, of the Sunset Nursery Co.; Peter Grootendorst, azalea grower of Brookings, Ore., and the new operators of the Juliana Nursery, Oakland.

R. L. Valley, who is in charge of the vocational horticulture classes in the Oakland public school system, told of the new location his group has. It is now installed at the old University high school buildings, in some of the shops previously used for manual training. He said even this was an improvement over the former crowded quarters at the Oakland city park. Plans call for the building of a lath house about 40x40 feet and an additional 200 square feet of hotbeds and coldframes. A small greenhouse and three city lots adjoining the area will be planted with ornamental nursery stock, which will be used exclusively for classwork. The course now has an enrollment of twenty-three students, who devote eight hours a day for a 5-day week on the job. One class has already graduated, and all of the graduates are now engaged professionally in horticulture in the Oakland area. Mr. Valley added that he welcomed suggestions from practicing nurserymen as to additions or changes in course work and methods of presenting the material. Jack McDonnell, McDonnell Nursery, Oakland, is counselor for the group.

The next meeting will be at the Villa de Paris, Oakland, March 9.
W. B. B.

FORMERLY of Sebastopol, Calif., John Temple recently opened the Temple Nursery near Williams, Calif.

THREE grandchildren in thirty days kept the congratulations pouring in on the L. E. Ingoldsby, L. E. Ingoldsby Nursery & Floral Shop, Lindsay, Calif. Their first grandchild was presented to them on December 11 by their oldest daughter, Mrs. J. D. Kirby, Jr., followed by the arrival of twin boys on January 11 to Mr. and Mrs. Norman Ingoldsby.

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Latham Raspberry, No. 1 30.00
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June Raspberry, No. 1 50.00
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GEM EVERBEARING

STRAWBERRY PLANTS.
Streamliner, Minn. 1166 and Brune's Marvel. Guaranteed true-to-name and free from mixed varieties. Choice northern-grown plants. Booking orders for spring delivery. 10 per cent discount on orders of \$50.00 or more. Gem, \$10.00 per 1000.
Latham and Newburgh Raspberry plants, \$30.00 per 1000.

DAVIS PLANT FARM Hamilton, Mont.

RASPBERRY PLANTS.

Per 1000
Latham, red.
No. 1 suckers \$30.00
1-yr. transplants (sold out)
2-yr. transplants 50.00
No. 2 suckers 18.00
Bristol, black, tips 35.00
Cumberland, Logan, Morrison, black, tips 30.00
Columbian, purple, tips (sold out)
C. H. BENEDICT, Grand Junction, Mich.

DURHAM EVERBEARING RASPBERRY — New introduction New Hampshire agricultural experiment station; earliest good fall bearer available today. Bears on new canes here starting September 1. Bears first year. Ideal for home garden and roadside stand trade. Stock very limited. No. 1 suckers, \$12.00 per 100; small suckers, \$8.00 per 100.
PINE-CROFT NURSERIES, Exeter 3, N. H.

STRAWBERRY PLANTS — State certified, twice inspected. Robinson, \$9.00 per 1000; Premier, Catskill, Fairfax and the new Fairland, \$11.00 per 1000. Everbearing varieties: The new Superfection, \$22.00 per 1000; Streamliner, \$15.00 per 1000; Minn. 1166, Mastodon and Gem, \$12.00 per 1000.

GATEWAY NURSERY

New Buffalo, Mich.

Cultivated Blueberry Plants—Compare our prices with others. 4-yr., 4 ft., \$9.00 per doz.; \$45.00 per 100. 3-yr., 3 ft., \$8.00 per doz.; \$38.00 per 100. 2-yr., 18 to 24 ins., \$7.00 per doz.; \$32.00 per 100. Varieties: Rancocas, Rubel, Jersey, New Weymouth and Burlington. Prices quoted. WARREN SHINN'S NURSERY, Woodbury, N. J.

NEW SIOUX STRAWBERRY.

Born at Cheyenne, Wyo., Agr. Exp. Station. A cross between Fairfax and Rocky Mountain wild strawberries. Spring variety, more hardy than other varieties. Berries large with wild strawberry flavor.

Plants \$4.00 per 100, postpaid.

DOLLAR NURSERY Bloomfield, Iowa

STRAWBERRY PLANTS.

Northern-grown; doubly inspected.

Per 1000
Gem Everbearing \$12.00
Premier 11.00

ROBERTS STRAWBERRY NURSERY

Rt. 6 Kalamazoo, Mich.

STRAWBERRY PLANTS.

Aroma, Blakemore, Premier, Gem Everbearing, Mastodon Everbearing, Progressive Everbearing. All at \$5.00 per 1000.

SAM PACK NURSERIES

Route 5 Smithville, Tenn.

Cumberland and New Logan

Per 1000
Raspberry Plants \$25.00
Robinson Strawberry Plants \$1.00

Extra-fine plants after best growing season in many years.

ALMENA NURSERY Paw Paw, Mich.

ROCKHILL EVERBEARING STRAWBERRY PLANTS

— Generous-size divisions. No packing charge. Priced \$50.00 per 1000, F.O.B. Silverton. Terms: Cash with order.

ABBIQUA GARDENS

Rt. 2, Box 169 Silverton, Ore.

THORNLESS BOYSENBERRY PLANTS

\$5.00 per 100; \$35.00 per 1000. Wholesale. Lowest prices anywhere. WARREN SHINN'S NURSERY, Woodbury, N. J.

STRAWBERRY PLANTS.

Doubly Inspected. Per 1000
New Superfection Everbearing \$20.00
Streamliner Everbearing 16.00
New Arrowhead 9.00
Dunlap 7.50
500 plants at 1000 rate.

DOLLAR NURSERY, Bloomfield, Iowa.

RASPBERRIES, No. 1 Morrison tips, \$36.00 per 1000.

VICTORIA RHUBARB, 1 to 1½ ins., \$30.00 per 1000; ¾ to 1-in., \$20.00 per 1000; ½ to ¾-in., \$15.00 per 1000.

Can ship rhubarb any time; tips early spring.

ASHCRAFT NURSERY

Copemish, Mich.

STRAWBERRIES.

Bush-type Everbearing, Wayzata origin. Ideal plant under intensive irrigation. Divisions only \$60.00 per 1000.

PAULSEN'S NURSERY

Minden, Neb.

BULBS AND TUBERS

MICHIGAN-GROWN GLADS.

	Per 1000	No. 1	No. 2	No. 3
Picardy	\$20.00	\$16.00	\$12.50	
Cardinal	19.00	15.00	12.00	
Betty Nuthall	18.00			
Flaming Sword	18.00			
Marg. Beaton	19.00			
Dr. F. E. Bennett	19.00			
Snow Princess	18.00			
Shirley Temple	19.00	15.00		
Blue Beauty	28.00			
E. C. Cole	20.00	17.00		
Maid of Orleans	18.00	14.00		
Marg. Fulton	18.00			
Miss Bloomington	18.00			
Rosa Van Lima	21.00	18.00	14.00	
Snow Princess	18.00		13.00	
Valeria	32.00			
Bagdad	20.00			
Gold Dust	20.00	17.00	14.00	
New Europe	24.00			
Purple Supreme	24.00	20.00	16.00	
Anna Mae	28.00			
Mother Kadel	28.00			
Mar. Charm	18.00			
Token	18.00			
Rapture	18.00	13.00		
Raw Fallu	28.00	24.00		
Stoptight	24.00			
King Lear	28.00	16.00		
C. Koeh	25.00	20.00		
Lavender Ruffles	20.00			
Vagabond Prince	23.00			
Pelegina	23.00	19.00	15.00	
Spotlight	35.00			
Leading Lady	22.00			
Beacon	19.00			
Yellow Emperor	20.00	16.00		
Phyllis McQuiston	19.00			
Black Opal	32.00	26.00		
Corona	28.00	24.00		
Mixed	17.00	14.00	11.00	

Cash or C.O.D.

HOWARD STREET PANSY GARDENS

Kalamazoo 99, Mich.

SELECTED SAND-GROWN

DAHLIA TUBERS.

Quantities:	Per 100
1800 Rose Glory, enormous flowers	\$14.00
200 Coralissimo, large scarlet	12.00
450 Break o' Day, pink	12.00
150 P. C. Anderson	12.00
530 Le Boutillier, fine red	12.00
450 Josephine G., beautiful pink	14.00
350 Granell, enormous red	14.00
1000 Mrs. Marg. W. Wilson, orchid-pink	12.50
400 Jack Rose	10.00
500 Austinburg, large red	12.00
700 Jean Kerr, florists' white	9.00
600 Coral, beautiful florists' pink	10.00
1200 Yellow Colosseum, extra-yellow	10.00
2500 Yellow Glory, enormous yellow	14.00
250 Miss Oakland, white	11.00
1200 Sanhican's Bluebird	14.00
300 Big Gus, orange-scarlet	10.00
300 Red Chief, bright red	10.00
300 A. D. Livoni, pink	10.00
300 Forest Fire, bronze	14.00
300 Bashful Giant, apricot and amber	11.00
100 Rosa Nell, deep pink	11.00
1500 Mrs. I. de Ver Warner, orchid-lav.	11.00
500 Monmouth Champion, flame-red	14.00
200 Oyster Bay Beauty, oxblood-red	14.00
100 Rose Fallon, giant old-gold	14.00
300 Blue River, huge blue	17.00
300 Clara Carder, large cyclamen-pink	17.00
250 Jane Cowli, buff and salmon	17.00
300 Kemp's White Wonder	17.00
... Porthos, giant red	10.00
... Jersey's Beacon, scarlet-buff; large	17.00

Cash or C.O.D.

MONARCH PLANT FARMS

Lock Box 826 Kalamazoo 99, Mich.

TIGER LILIES.

Single and double tiger lilies. The EVERGREEN NURSERIES Lowell, Ind.

BELGIAN IMPORTED DOUBLE

BEGONIAS.

All-double, camellia-flowered; colors as follows: Red, yellow, pink, salmon, orange, copper, scarlet, rose.

Sizes:	Per 100
1 1/4 to 1 1/2-in.	\$ 6.00
1 1/2 to 2-in.	10.00
2 to 3-in.	15.00

Cash or C.O.D.

MONARCH PLANT FARMS

Kalamazoo 99, Mich.

JUMBO GLADIOLUS BULBS.

For retail counter sales. The kind folks like to buy. Jumbo size, 2 to 3 ins. across. 20 popular commercial varieties in mixture. \$20.00 per 1000, F.O.B. here. Cash or 25 per cent down, balance C.O.D. Shipment now or later, as desired. 250 or more at 1000 rate. If interested in young planting stock for lining out or named varieties in any size, ask for our price list.

BENNINGTON'S NURSERY GARDENS

Route 1 Lake City, Iowa

SELECTED CANNAS, 2 to 5 eyes.

	Per 100	Per 1000
The President	\$5.00	\$40.00
Red King Humbert	5.00	40.00
Yellow King Humbert	5.00	40.00
Rosamond Coles	5.00	40.00
City of Portland	5.00	40.00
Extra-fine mixed	3.50	28.00

MONARCH PLANT FARMS

Lock Box 826 Kalamazoo 99, Mich.

PEONIES.

Young, 3 to 5-eye plants.	Per 100	Per 1000
Edulis Superba, rose-pink	\$30.00	\$250.00
Floral Treasure, clear pink	25.00	200.00
L'Esperance, bright pink	25.00	200.00
Pink, unnamed	22.00	175.00

30 at 100 in 1000 rate.

WILLIS NURSERY CO.

Ottawa, Kansas

REGAL LILIES.

Quality stock; F.O.B. Portland.	Per 100
4 to 5 ins.	\$4.00; \$27.00 per case of 750
5 to 6 ins.	5.50; 25.00 per case of 500
6 to 7 ins.	6.50; 22.00 per case of 350

JOHN MESKEL & SON

11120 N.W. Prescott Portland 20, Ore.

HARDY NORTHERN-GROWN LILY BULBS.

New, rare, scarce and unusual as well as standard varieties.

New wholesale list now ready.

Send for your free copy.

J. HENDRIKS, Grower Portage, Mich.

50,000 DAHLIA ROOTS. We grow many

scores of standard cut flower varieties for the

trade. Write today for wholesale price list.

PAYNE DAHLIA FARMS, Route 8, Kansas

City 3, Kan.

DAHLIAS.

25 acres of high-quality dahlias. Write for

new color catalog. Wholesale only.

COMPTON'S DAHLIA FARM Boring, Ore.

The trade's market place—

The ads in the American Nurseryman.

CAMELLIAS

CAMELLIAS.

Price per 100:	6 to 8 ins.	8 to 10 ins.	10 to 12 ins.	12 to 18 ins.
Alba Plena	\$17.50	\$30.00	\$45.00	\$60.00
Chandleri Elegans	17.50	25.00	35.00	50.00
Debutante	25.00	40.00	50.00	70.00
Glen 40	25.00	40.00	50.00	70.00
Hermes	12.50	20.00	30.00	40.00
Kumasaka	25.00	35.00	50.00	65.00
Lady Clare	25.00	40.00	50.00	70.00
Lady Van Sittart	17.50	25.00	35.00	50.00
Laurel Leaf	25.00	40.00	50.00	70.00
Magnoliaeflora	50.00	60.00	75.00	100.00
Mathotiana (P. Dawn)	35.00	50.00	70.00	90.00
Pink Perfection	12.50	20.00	30.00	40.00
Pope Plus	12.50	20.00	30.00	40.00
Prof. Sargent	12.50	20.00	30.00	40.00
Sarah Frost	10.00	15.00	20.00	25.00
Sasanqua, 3 varieties	10.00	12.50	15.00	20.00

Many other varieties. 2 1/2-in. potted Camellias at only 5c to 10c per plant higher than rooted cuttings. Write for wholesale price list of Camellia, Azalea and many other liners.

COTTAGE HILL NURSERY

T. Kiyono, Mgr.

Rt. 4, Box 130 Mobile, Ala.

SPECIAL SALE TO MAKE MORE ROOM.

Alba Plena, Anna Frost, Brilliant, Brooklyana, Caleb Cope, Cameo Pink, Chandleri Elegans, Cliviana, Countess of Orkney, Dark Cheerful, Dixie, Elizabeth, Gloire de Nantes, Hermes, Jarvis Red, Ozone, Pink Perfection, Prof. Sargent, Sarah Frost. Rooted cuttings, 12 1/2c; 6 to 8 ins., 17 1/2c; 8 to 12 ins., 25c; 12 to 18 ins., 35c.

Adolph Audusson, Alba Superba, C. M. Hovey, Daikagura, Duchess of Sutherland, Eleanor Haygood, Ethelington White, Firebrand, Gigantea, Glen 40, Imura, Kumasaka, Lady Clare, Laurel Leaf, Nagasaki, Pink Ball, Purple Dawn, Snow Drift, Sweetiana Vera, Woodville Red. Rooted cuttings, 35c; 6 to 8 ins., 35c; 8 to 12 ins., 45c; 12 to 18 ins., 65c.

Above priced each. Minimum order 10 of a kind. Remittance with order. Satisfaction guaranteed or return for refund. Minimum order, \$10.00.

NATIONAL NURSERIES

Dept. A Biloxi, Miss.

CAMELLIA LINERS.

Before buying, write us for our new list of

special low prices on Camellia liners.

FLOWERWOOD NURSERY, INC.

Rt. 1, Box 130 Mobile, Ala.

The Trade's Buying Guide—

The American Nurseryman Ads.

EVERGREENS

LINING-OUT LIST.

We offer the following potted liners for shipment to you in New Paper Pots at the slight added cost as per prices quoted in the first column.

Potted liners priced in the second column will be packed by the ordinary method used by most nurseries, without the added protection of paper shipping pots.

Bare-root liners and liners in Bird Vita-Bands are also priced in the second column. The 1000 rate applies on all orders; therefore place order in multiples of 25 or more.

In Without

paper paper

pots pots

each each

per per

1000 1000

Biota aurea nana

(Berckmans arborvitae),

2 1/2-in. pots \$0.20 \$0.19

2 1/2-in. pots .22 1/2 .21 1/2

Biota Bonita and Biota sibylli.

2 1/2-in. pots .18 .17

2 1/2-in. pots .20 .19

Biota bakeri and Biota excelsa,

2 1/2-in. pots .18 .17

Cedrus deodora,

6 to 8 ins., liners. .17 1/2

8 to 12 ins., liners.

partly branched. .20

12 to 18 ins., liners.

mostly branched. .25

Jun. chinensis pfitzeriana and

Jun. chinensis pfitzeriana

compacta,

2 1/2-in. pots .18 .17

2 1/2-in. pots .20 .19

Jun. chinensis sylvatica,

2 1/2-in. pots .22 1/2 .21 1/2

2 1/2-in. pots .25 .24

Jun. chinensis viridifolia,

2 1/2-in. pots .22 1/2 .21 1/2

2 1/2-in. pots .25 .24

Jun. excelsa stricta,

2 1/2-in. pots .18 .17

2 1/2-in. pots .20 .19

Jun. glauca hetzi,

2 1/2-in. pots .16 .15

2 1/2-in. pots .19 .18

Jun. hibernica fastigiata,

2 1/2-in. pots .18 .17

2 1/2-in. pots .20 .19

Jun. virg. ketelerii,

2 1/2-in. pots .25 .24

2 1/2-in. pots .27 1/2 .26 1/2

Taxus cuspidata intermedia,

Taxus media andersoni,

Taxus media browni,

Taxus media hickii,

2 1/2-in. pots .17 .15

2 1/2-in. pots .19 .18

We also offer bare-root Taxus

andersoni and hickii,

4 to 6 ins., liners. .12

6 to 8 ins., liners. .14

Taxus browni,

6 to 8 ins., liners. .14

Abelia grandiflora,

1 1/2 x 2 1/2-in. bands. .10

2 1/2-in. pots .14

Berberis sargentiana,

1 1/2 x 2 1/2-in. Vita-Bands. .12

2 1/2-in. pots .15

2 1/2-in. pots .17

Buxus handworthii and

Buxus sempervirens,

3 to 4 ins., liners. .05

4 to 6 ins., liners. .07 1/2

Buxus japonica,

4 to 6 ins., liners. .07 1/2

1 1/2 x 2 1/2-in. bands. .09

2 1/2-in. pots .12

2 1/2-in. pots .14

Buxus suffruticosa,

Camellia sasanqua

Maiden's Blush,

2 1/2-in. pots .12 .11

2 1/2-in. pots .15 .14

Elaeagnus pungens fruitlandi,

4 to 6 ins., liners. .10

6 to 8 ins., liners. .11

2 1/2-in. pots .12

2 1/2-in. pots .15 .14

Euonymus patens sieboldianus,

4 to 6 ins., liners. .07

6 to 8 ins., liners. .08

2 1/2-in. pots .11

2 1/2-in. pots .13

Gardenia fortunei,

4 to 6 ins., liners. .05

6 to 8 ins., liners. .07

Hex cornuta burfordi,

1 1/2 x 2 1/2-in. bands. .12

2 1/2-in. pots .15

Hex cornuta femina,

2 1/2-in. pots .20

Hex crenata rotundifolia,

2 1/2 x 3-in. bands. .21

3-in. pots .22

Hex crenata convexa bullata,

2 1/2-in. pots .18

2 1/2-in. pots .19

3-in. pots .25

(Continued in next column.)

(Concluded from previous column.)

In Without

paper paper

pots pots

each each

per per

1000 1000

Illicium anisatum,

2 1/2-in. pots \$0.18 \$0.17

2 1/2-in. pots .20 .19

Jasminum floridum,

4 to 6 ins., liners. .06

6 to 8 ins., liners. .08

Ligustrum lucidum

compactum,

2 1/2 x 3-in. bands. .10

2 1/2-in. pots .12

Ligustrum ionandrum,

2 1/2-in. pots .19 .18

Magnolia grandiflora,

2 1/2-in. pots .10 .09

2 1/2-in. pots .12 .11

Magnolia soulangeana,

3-in. pots .50 .49

12 to 18 ins., rooted layers. .40

18 to 24 ins., rooted layers. .75

Magnolia soulangeana nigra,

2 1/2-in. pots .35 .34

3-in. pots .45 .44

8 to 12 ins., rooted layers. .45

12 to 18 ins., rooted layers. .50

12 to 18 ins., transplants. .75

Magnolia liliflora,

2 1/2-in. pots .35 .34

3-in. pots .45 .44

12 to 18 ins., rooted layers. .50

Nandina domestica,

2 1/2-in. pots .10 .08

Photinia glabra,

1 1/2 x 2 1/2-in. bands. .18 .17

2 1/2-in. pots .19 .18

Pyracantha belli,

2 1/2-in. pots .20 .19

2 1/2-in. pots .22 1/2 .21 1/2

Viburnum tinus,

3 to 4 ins., liners. .05

4 to 6 ins., liners. .06

Buddleia Ile de France,

10 to 12 ins., liners. .10

Lonicera Flaming Beauty,

4 to 6 ins., liners. .12

6 to 8 ins., liners. .15

Kerria jap. flore-pleno,

4 to 6 ins., liners. .05

6 to 8 ins., liners. .06

Weigela rosea,

6 to 8 ins., liners. .06

Wistaria sinensis,

12 to 18 ins., seedlings. .05

SPECIAL NOTICE: We are not brokers.

Every plant of the millions we have for sale

is actually produced and grown here in our

own greenhouses, consisting of more than

150,000 sq. feet of glass situated on our own

farms, which we operate ourselves to the

extent of approximately 1,000 acres, includ-

ing more than 200 acres in ornamental nursery

stock. Seeing is believing; so we

cordially invite you to come and look us over.

T. G. OWEN & SON, Inc.

Columbus, Miss.

ROOTED CUTTINGS.

Per 100 Per 1000

Taxus baccata repandens \$10.50 \$100.00

Taxus brevifolia 8.00 75.00

Taxus cuspidata 6.00 50.00

Taxus media, upright 7.00 60.00

Taxus media, upright,

slow grower 7.50 70.00

Taxus Moon's columnaris 7.00 60.00

Taxus hickii 7.00 60.00

Ilex crenata 7.00 60.00

Ilex crenata convexa 7.00 60.00

Juniperus nigra 7.50 70.00

Thuja occ. pfitzeri 7.50 70.00

QUALITY LINERS. Per 100
 Pfister Spr. Juniper, 4 to 6 ins., tr.....\$22.50
 American Holly, 4 to 8 ins., tr.....10.00
 Austrian Pine, 3 to 5 ins., adlg.....8.50
 Hybrid French Lilac (grafts),
 10 to 15 ins.....27.50
 Asaleas, in excellent variety (see list).
 Send for new spring list.

POSSUM HOLLOW NURSERIES
 6327 Magnolia St. Philadelphia 44, Pa.

GARDENIAS. Each
 bushy, field-grown, B. R., 12 to 18 ins. \$0.30
 2-yr., field-grown, B&B, 24 to 30 ins. .50
 2-yr., field-grown, B&B, 30 to 36 ins. .75
 Hadley,
 bushy, field-grown, B. R., 12 to 18 ins. .30
 2-yr., field-grown, B&B, 24 to 30 ins. .50
 We deliver to 150 miles in full truckload.
R. STRAUGHAN'S NURSERY, Loranger, La.

JUNIPER GRAFTS.
 Canaerti, keteleeri, pfisteriana, glauca and
 burki, on virginiana understock. Spring deliv-
 ery. Terms: Cash with order earns free
 packing; or one-fourth cash, packing at cost,
 and balance at shipping time. Price, \$40.00
 per 100; \$37.50 per 100 at 1000 rate. 250 take
 1000 rate.
FLORENCE NURSERY Florence, Ky.

COLORADO BLUE SPRUCE.
 Highest-quality Liners and Finished Trees.
 Bare roots and B&B; packed for shipment.
 Seedlings, 2-0, \$26.12 per 1000.
 Transplants, from \$85.50 per 1000.
 Specimen Finished Trees, from 63c each.
 Write for complete price list.
H. W. WEBER
 16 Summer St. Weston 93, Mass.

TAXUS, LARGE LINERS.
FIELD-GROWN TRANSPLANTS.
 From selected cuttings, best strain.
Taxus cuspidata capitata Per 100 Per 1000
 12 to 18 ins. \$50.00 \$550.00
 Also B&B Taxus, upright and spreading, in
 landscape sizes for Middle West shipment in
 carload lots.

BULK'S NURSERIES, Inc., Babylon, L.I., N.Y.
BUXUS SUFRUTICOSA—English Boxwood.
 Per 100
 4 to 6 ins. \$15.00
 6 to 8 ins. 22.50
 8 to 10 ins. 25.00
 Compact plants, Virginia-grown.
GULF STREAM NURSERY, Inc.
 Wachapreague, Va.

KALMIA LATIFOLIA—Specimen land-
scape plants, fully selected for density,
2 to 3 ft., \$1.00 each.
SELECTED RHODODENDRON MAXI-
MUM—2 to 3 ft., \$3.00 each.
WILLIAM H. JONES
 Berlin Rd. Laurel Springs, N. J.

EVERGREENS.
 2000 White Spruce, 2 to 4 ft.; Yew, 24 to
 30 ins.; White Pine, 3 to 4 ft.; Pfitzers,
 Andorra, etc. Sacrifice if you dig them.
THE EVERGREEN NURSERIES Lowell, Ind.

EVERGREENS.
 Pinus Ponderosa, 3-yr. sdigs.
 6 to 8 ins., \$45.00 per 1000.
KROEKER'S NURSERY
 Butterfield, Minn.

DOUGLAS FIRS.
 8 to 12-inch Douglas Firs.
 \$7.50 per 100, \$60.00 per 1000.
COASTAL GARDENS Sheridan, Ore.

FRUIT TREES
 A few thousand 3-year-old Apple: Jona-
 than, Double Red Jonathan, Yellow Delic-
 ious, Red Delicious, York, Turley, Wealthy,
 Rome Beauty, Double Red Rome Beauty,
 Grimes—11/16-in., 35c; 1 to 1 1/4-in., 75c;
 1 1/4 to 1 1/2-in., \$1.15 each, in 1000 lots.
 5000 3-yr. Apple, leading varieties, 5/16-
 in., 15c; 7/16-in., 20c, 9/16-in., 25c each,
 in 100 lots.
 A few hundred Pear: Seckel, Duchess,
 Bartlett—1-in., 85c; 1 1/4-in., \$1.25 each, in
 100 lots.
 5000 Amur River North Privet, cut back,
 many branches, 2 to 3 ft., 94c; 3 to 4 ft.,
 13c; 4 to 5 ft., 20c each, in 1000 lots.
 500 Hansen Dwarf Cherry, 3-yr., heavy,
 3 to 4 ft., 30c; 4 to 6 ft., 60c each, in 1000
 lots.
 1000 American Ash, 1 1/2 to 2-in., \$1.50; 2
 to 2 1/2-in., \$2.25 each.
EGYPTIAN NURSERY & LANDSCAPE CO.
 Farina, Ill.

PEAR TREES.
 Kieffer, Douglas, Lincoln, Richard Peters,
 Pound, Smith's Hybrid and Patten.
 Each
 2 to 3 ft. \$0.25
 3 to 4 ft. .30
 4 to 5 ft. .40
 5 to 6 ft. .65
 All above based on Calleryana root-
 stocks and branched.

APRICOTS.
 Hungarian, Moorpark, Early Golden and
 Little Sam.
 Each
 2 to 3 ft. \$0.25
 3 to 4 ft. .35
 4 to 5 ft. .45
 All branched. Large branched, 75c each.
FITZGERALD'S NURSERY,
 Stephenville, Texas

CHERRY and APRICOT TREES.

1-yr., branched. Each
 110 Montmorency, 9/16-in. \$0.35
 110 Montmorency, 7/16-in. .20
 280 Montmorency, 5/16-in. .15
 40 Early Richmond, 9/16-in. .35
 110 Early Richmond, 7/16-in. .20
 110 Early Richmond, 5/16-in. .15
 200 Moorpark Apricot, 9/16-in. .40
 130 Moorpark Apricot, 7/16-in. .25
 240 Moorpark Apricot, 5/16-in. .20
 50 Stanley Prune, 9/16-in. .30
 30 Stanley Prune, 7/16-in. .20
 20 Stanley Prune, 5/16-in. .15
 Per 1000
 5000 Mahaleb seedlings, No. 3.....\$ 7.00
 2500 Mahaleb seedlings, No. 2.....11.00
 Packing at cost.
ROGERS WHOLESALE NURSERY
 Box 132 Winfield, Kan.

REDUCED PRICES.

For first-quality stock.
 Apple trees. Per 100 Per 1000
 3-yr., 4 to 5 ft. \$20.00 \$175.00
 3-yr., 5 to 6 ft. 25.00 225.00
 This block of apple trees consists of about
 5,000 trees, well branched and free from
 disease.
 Chinese Chestnut trees, transplanted in
 the spring of 1948 to the field, 1 to 2 ft.,
 \$50.00 per 100; 2 to 3 ft., \$60.00 per 100;
 3 to 4 ft., \$70.00 per 100; 4 to 5 ft., \$80.00
 per 100. About 7,000 trees.
 Free boxing and packing. If you come with
 your truck we will take off what it would
 cost us to pack.
HOME NURSERY CO. Fort Gay, W. Va.

PECAN TREES.
 Pecan trees grown on our better rootstocks,
 carefully hand-dug, stake-trained trees. Sure
 to please. Each per 100
 2 to 3 ft. \$1.10 \$0.90
 3 to 4 ft. 1.20 1.10
 4 to 5 ft. 1.40 1.30
 Varieties: Burnett and Stuart in 2 to 3-ft.
 and 3 to 4-ft. sizes only. Meyhan and Schley,
 all sizes. Prices F.O.B. Goldthwaite, Tex.
 Write for complete list of new low prices on
 fruit and pecan trees.
COCKRELL'S RIVERSIDE NURSERY
 Goldthwaite, Texas

AN OPPORTUNITY in Tane-Nashi Persim-
mons! Mention American Nurseryman in
 your order and get 1000-rate price on order of
 50 and up. Our top-quality trees.
 Per 100 Per 1000
 2 to 3 ft. \$55.00 \$500.00
 3 to 4 ft. 72.00 650.00
 4 to 5 ft. 90.00 850.00
 Cash from new customers, please.
GLENN SAINT MARY NURSERIES CO.
 Glenn Saint Mary, Fla.

GROUND COVER
VINCA MINOR—Hardy Myrtle (Periwinkle).
 For immediate or spring delivery. Indi-
 vidual made up, long canes up to 18 ins.
 in large clumps, 15 to 30 leads. Very thrifty.
 prompt shipment, \$37.00 per 1000 clumps.
 Any quantity, 2 per cent cash discount if
 check accompanies order.
H. C. WAUGH
 736 Green St. Marietta, Ohio

EUONYMUS RADICANS VEGETUS.
 Per 100 Per 1000
 Strong rooted cuttings.....\$8.00 \$75.00
PLANE VIEW NURSERY
 Newport, R. I.

HARDWOOD CUTTINGS

HARDWOOD CUTTINGS.
 From Hardy Northern-grown Shrubs and
 Trees. Delivery now. From our own plant-
 ings and blocks checked yearly for accuracy.
 Cut 7 inches.

Per 1000
 Aronia melanocarpa\$ 4.00
 Cornus sibirica4.00
 lutea (yellow bark)6.00
 amomum4.00
 Forsythia intermedia3.00
 spectabilis3.00
 Elder, Cutleaf4.00
 Red-berried5.00
 canadensis3.00
 Hydrangea A.G.6.00
 Privet, Amur3.00
 Regel (true)3.00
 Iboia2.00
 Honey suckle, bella albidia3.00
 bella rosea3.00
 korolkowi4.00
 zabeli5.00
 syringantha5.00
 masacki4.00
 Diervilla trifida4.00
 Philadelphus grandiflorus3.00
 Mt. Blanc3.00
 Physocarpus opul. aureus3.00
 Sorbaria sorbifolia3.00
 Spiraea billardi3.00
 thunbergi3.00
 vanhouttei3.00
 trichocarpa3.00
 Poplar, Lombardy3.00
 Willow, Niobe3.00
 Pussy3.00
 Packed free. Cash with order, please. Deliv-
 ery in good order guaranteed.
THE SCOTCH GROVE NURSERY
 Scotch Grove, Iowa

GENUINE AMUR RIVER NORTH PRI-
VET CUTTINGS — from proven "Mother
 Blocks" all hand-sorted, same grade as we
 use, so must be correct. 5,000 for \$11.25.
 Cash, packing free.
ALTA VISTA NURSERIES, Davenport, Iowa

PFITZER JUNIPER CUTTINGS.
 6 to 10 ins., long, not trimmed. Well
 packed, \$10.00 per 1000. Cash with order.
KRONE'S FLOWER SHOP
 4221 Grand Ave. Fort Smith, Ark.

HARDY PLANTS

NEW SUMMER-FLOWERING MUMS.
 Very hardy—easy to grow—clean.
 Large, perfectly formed flowers from
 early August to frost.
 Excellent for cutting and corsages.

DEAN KAY SERIES.
 Rooted
 cuttings Pot plants
 per 100 per 12 per 100
DEAN KAY IMPROVED.
 Rose-pink\$ 6.00 \$1.75 \$11.00
DEAN LADD.
 Reddish-bronze6.00 1.75 11.00
 MY LADY Orange-yellow6.00 1.75 13.00
UNIV. OF MINNESOTA VARIETIES.
AURORA, Dragon's
 blood-red6.00 1.75 11.00
BRILLIANT, Brazil-red .. 12.00 2.75 17.00
BUTTERBALL.
 Lemon-chrome6.00 1.75 11.00
CHIPPEWA, Aster-purple .. 6.00 1.75 11.00
DEE DEE AHRENS.
 Pure white8.00 2.25 13.00
DR. LONGLEY NEW.
 Soft amaranth-pink20.00 4.00 25.00
GLACIER, Pure white6.00 1.75 11.00
MARCON 'N GOLD.
 Red and golden6.00 1.75 11.00
MOONLIGHT NEW.
 Ledge white20.00 4.00 25.00
REDGOLD.
 Scarlet pom-type6.00 1.75 11.00
REDHAWK, Brazil-red6.00 1.75 11.00
SILVER PINK, Silver-pink .. 12.00 2.75 17.00
SUNBED, Bright red6.00 1.75 11.00
VIOLET, Amaranth-purple .. 8.00 2.25 13.00
WATERLILY, White6.00 1.75 11.00
UNIV. OF CHICAGO VARIETIES.
CALENDULA.
 Chrome-yellow6.00 1.75 11.00
HARBINGER, Bronze6.00 1.75 11.00
OLIVE LONGLAND.
 Apricot-salmon6.00 1.75 11.00
ROBERT BRYDON.
 Garnet-red6.00 1.75 11.00
UNIV. OF NEW HAMPSHIRE MUMS.
NASHEA.
 Reddish-bronze pom 7.00 2.00 12.00
SUNAPEE, Rich gold pom .. 7.00 2.00 12.00
OTHER NEW VARIETIES.
CODY (NEW).
 Orchid and white20.00 4.00 25.00
POWDER PUFF, White. .. 20.00 4.00 25.00
CHRIS COLUMBUS.
 Cream to yellow7.00 2.00 12.00
 Clean, strong, rooted cuttings. No orders for
 less than 25 of one kind. Ready after March
 1. Pot plants ready after April 1. No orders
 for less than 12 of one kind, please. No
 packing charges if cash with order.

CORLISS BROS., Inc., NURSERIES
 Reynard St. Gloucester, Mass.

"COLORFUL MUMS."
 Order today. It's free. Best, newest and
 latest. Over 300 named hardies; grown,
 tested and merit-proven here at the Flo-
 retum. Covers entire blooming season, Aug.,
 Sept., Oct. and Nov. Latest, newest and best
 at prices every grower can afford. Field
 clumps for propagation, rooted cuttings and
 Bird-banded plants for spring sales. Hardies
 are booming! Order "Colorful Mums" today!
 Perennials included.

2 NEW HARDY PERENNIALS FOR 1950.
 Bird-banded plants; no planting loss.
 Per 15
 Scutellaria Blue Symphony, rare, tall,
 rigid-stem, landscape and garden
 plant\$5.00
 Penstemon Pyramy Rose, flowers and
 winter-red foliage make ideal border
 plant\$5.00
PRAIRIE SOUTHWEST FLORETUM
 Fall River, Kan.

THE DELPHINIUM of TOMORROW.
LYONDEL GIANT HYBRIDS.
 Massive Spikes—Stately—Majestic—Colorful.
 A new strain especially selected for its
 large-size flowers and wide range of beau-
 tiful colors. Doubles, semidoubles, singles.
 Extremely hardy.
 Large field-grown plants, \$4.00 per doz;
 \$25.00 per 100.
 Seeds from plants grown from originator's
 seeds, \$5.00 per 1/4-oz.; \$11.00 per 1/2-oz.;
 \$20.00 per oz.

CORLISS BROS., Inc., NURSERIES
 Reynard St. Gloucester, Mass.

BLEEDING HEARTS. Each
 Dicentra spectabilis, 2 to 5 eyes.....\$0.25
 Dicentra spectabilis, 5 to 8 eyes......35
 Well developed, field-grown, root bea-
 utiful.
CASHAR W. EVANS, Selbyville, Del.

HARDY PLANTS—Continued

HARDY FIELD-GROWN PERENNIALS.
Dug fresh, packed well, shipped as you direct.

	Per doz.	Per 100
ALYSSUM saxatile compactum.....	\$ 8.00	
AMSONIA Tabernaemontana, heavy.....	\$1.50	
ASTILBE rosea.....	2.00	
AQUILEGIA longissima, 2-yr. trans.....	1.50	
Rose Queen, large, 1-yr. sdg.....	6.00	
Crimson Star, 2-yr. trans.....	12.00	
Mrs. Scott Elliott, large, 1-yr. sdg.....	6.00	
BAPTISIA australis, large trans.....	10.00	
CENTAUREA montana.....	6.00	
CAMPANULA rapunculoides, 1-yr. sdg.....	4.00	
CHELONE barbata, brick-red, large trans.....	10.00	
DELPHINIUM Vetterle & Reinelt Pacific Giant.....	6.00	
Blue Bird, large, 1-yr. sdg.....	8.00	
Guinevere, large, 1-yr. sdg.....	8.00	
Galahad series, 1-yr. sdg.....	8.00	
Summer Sky, 1-yr. sdg.....	8.00	
Round Table, large trans.....	14.00	

DIANTHUS	
Spring Beauty, double, giant carnation-like bloom, fragrant; large, 1-yr. sdg.....	6.00
deltoides	8.00
GALLIARDIA Portola Hybrid, large trans.....	8.00
LIATRIS spicata, large.....	2.00
LINUM perenne, blue, large.....	8.00
LUPINE, Russell, large.....	10.00
LYCHNIS, Arkwright Ruby, large.....	10.00
MORNING PRIMROSE, divisions	5.00
PHLOX, Thor, hardy.....	10.00
subulata, rose-pink, divisions.....	5.00
subulata, brilliant red, divisions above two in very large clumps.....	10.00
PHYSOSTEGIA rosea, divisions.....	4.00
PLATYCODON, blue, lge. trans.....	12.00
blue, 1-yr. sdg.....	6.00
PYRETHRUM Robinson's Giant Hybrid, large.....	12.00
VERONICA spicata, various shades.....	6.00
VIOLA cornuta Arkwright Ruby, 1-yr. sdg.....	6.00
Chantrelay, 1-yr. sdg.....	6.00
mixed colors.....	5.00

Our usual digging season begins the first part of April. Late dormant season; can ship up to June 1.

Prices are F.O.B. nursery. Cash with orders, please.

J. J. NIGARD NURSERY

Herbster, Wis.

HARDY PERENNIALS.

Strong, rooted divisions, early spring shipment, 300 at 1000 rate.

	Per 100	Per 1000
Hardy Aster	\$8.00	\$75.00
Beechwood Challenger, bright red.....	6.00	50.00
Mt. Everest, good white.....	6.00	50.00
Sunset Pink, lavender-pink.....	6.00	50.00
Helenium Gartensoenne, golden-yellow.....	8.00	75.00
Polemonium Blue Pearl.....	8.00	75.00
Lychnis viscaria florepleno.....	8.00	75.00
Chrysanthemum		
Algonquin, early dbl. yellow.....	6.00	50.00
Autumn Lights, copper-bronze.....	6.00	50.00
Little Goblin, bronze pompon.....	6.00	50.00
Ruby Pompon, good red.....	6.00	50.00
pompon.....	6.00	50.00

PLANE VIEW NURSERY Newport, R. I.

HEAVY, 1-YR., FIELD-GROWN PLANTS.

	Per 100	Per 1000
Carnation Grenadin, mixed.....	\$3.00	\$27.00
Carnation Grenadin, red or pink.....	3.50	32.00
Carnation Grenadin, white or yellow.....	3.50	32.00
Canterbury Bella, mixed, single or double.....	3.00	...
Canterbury Bella, mixed, cup and saucer.....	3.50	...
Russell Lupines, mixed.....	5.00	...

NOVOTNY GARDENS Osage, Iowa

POLEMONIUM BLUE PEARL.

Strong, 1-yr., field-grown, for early spring shipment, 300 at 1000 rate.

\$18.00 per 100; \$150.00 per 1000.

A very fine hardy perennial, sun or shade. Blue flowers on 15-in. stems, May and June. When finished blooming, this Polemonium resolves itself into a 6-in. tuft of dark green, fernlike foliage that gives sales appeal even when not in bloom.

PLANE VIEW NURSERY Newport, R. I.

BLEEDING HEARTS.

	Per 100
Dicentra spectabilis, 3 to 5-eye.....	\$25.00
Dicentra spectabilis, 5 to 4-eye and up.....	35.00
Dicentra eximia, 3 to 5-eye.....	15.00
Dicentra eximia, 5 to 4-eye and up.....	20.00

J. HENDRIKS, Grower Portage, Mich.

PERENNIALS.

New and Standard Kinds.

A most modern and complete selection.

New Wholesale List now ready.

Send for your Free Copy Now.

CARROLL GARDENS

Box 15 Westminster, Md.

GYPSOPHILA BRISTOL FAIRY.

We are now booking orders for grafted Gypsophila Bristol Fairy potted plants. Shipping will start as soon as the weather permits in the spring, about April 1.

Per doz. Per 100 Per 1000

2 1/2-in. pots.....\$2.00 \$20.00 \$180.00

2 1/2 at 100 rate; 25 at 1000 rate.

BLUE ACRE GARDENS

David L. Guenther

R. R. No. 2, Box 162 Piqua, Ohio

2 1/2-IN. PERENNIALS — Heavy, greenhouse-grown, hardened in coldframes. Pacific Hybrid Delphiniums in named varieties; Marconi, Diener's Double and Conqueror Shasta Daisies; Grenadin Carnations; Robinson's Pyrethrum. 2 1/2-in. Radio Red Geraniums for bedding. All \$10.00 per 100.

RIEMENSDIJK'S GARDENS,

Sandwich, Ill.

FIELD PLANTS—Hardy Chrysanthemums, our choice, 5 each 10 varieties, \$7.50; 10 each 10 kinds, \$15.00; 5 each 20 kinds, \$20.00; 1 each 100 kinds, \$30.00. Morden Pink Lythrum, \$15.00 per 100. Divisions Hemerocallis, Thunbergi, Mikado, Kwanso, Gold, \$4.00 per 100. H&E Daisies, \$15.00 per 1000. HILLVIEW GARDENS, Fort Madison, Ia.

YUCCA FILAMENTOSA.

Good, strong, 2-yr. seedlings.

\$5.00 per 100.

GILBERTSON APIARIES

Kindred, N. D.

America's Best Source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

Pansies, perennials and rock plants in wide variety. Send for catalog.

PITZONKA'S PANSY FARM

Bristol, Pa.

ROSERUSHES

OHIO'S OLDEST NURSERY OFFERS YOU

A FINE LIST OF HYBRID TEA ROSES.

Per 100 Per 1000

No. 1.....\$37.50 \$350.00

No. 1 1/2.....32.50 300.00

Aml Quinard (red) Pink Radiance (pink)

Etoile de Hollande Caledonia (white)

(red) K. A. Viktoria (white)

Grenoble (red) Golden Salmon (yel.)

Poinsettia (red) Luxembourg (yellow)

Red Radiance (red) Roslyn (yellow)

Editor McFarland Condesa de Sagastio

(pink) Tallman (multicolor)

Margaret McGredy Paul's Scarlet (red)

(orange) Ideal (red)

American Beauty Golden Salmon

(red) Triomphe Orleansais

Pres. Hoover (multicolor) strobilus

Soeur Therese (yel.) (cherry-red)

Est. 1877

CALL'S NURSERIES, Call Rd., Perry, Ohio

ROSES.

The newest varieties of Roses, Hybrid Teas,

Everblooming, Floribundas and Dwarf Poly-

anthas in the best novelties.

Large quantities of greenhouse varieties

which can be imported to America, remaining

under the phytosanitary control for two

years.

SPECIAL CONDITIONS

FOR THE FIRST TRIAL ORDER.

Price: \$20.00 per 100, budded on Rosa

canina, free European port, free packing

with order of 5,000 bush roses.

Novelties: \$1.00 each.

30,000 Peach available.

ALFRED LAMESCH (Est. 1871)

23 Rue de Bezen

Dommeldange, Luxembourg

ROSES.

2-yr., No. 1, field-grown, \$4.50 per 10, \$40.00

per 100, in following varieties:

HYBRID TEAS.

Caledonia K. A. Viktoria

Condesa de Sagastio Mrs. Chas. Bell

Edith Nellie Perkins Pink Radiance

Etoile de Hollande Pres. Hoover

Golden Charm Red Radiance

Joanna Hill

CLIMBERS.

Cl. Mrs. P. S. du Pont, Cl. Tallman, Cl.

American Beauty.

POLYANTHUS.

Golden Salmon, Ideal.

WAYSIDE NURSERIES

Waynesboro, Virginia

ROSES—Ready for immediate or later deliv-

ery. Fine assortment of northern-grown roses, all carefully graded and packed. Never

grew a finer, healthier crop. Quality is our

first consideration. Mentor is near Cleveland,

most centrally located for the central states,

and close to eastern territory. Save long-

distance freight charges and shipping risks.

Your inquiries will have our prompt atten-

tion.

GERARD K. KYLN, Inc. Mentor, Ohio

Largest Grower of Northern-grown Roses

in the Central States.

500 PAUL'S SCARLET CLIMBERS.

For immediate shipment.

No. 1, extra-heavy, 50c each.

Terms Cash.

SHADE'S NURSERY

1907 Orchard St.

Harrisburg, Pa.

ROSES.

Come to the source for field-fresh, freeze-free stock, popular garden favorites. Trade list for licensed nurserymen, florists, dealers only.

ARP NURSERY CO.

Box 867 Tyler, Texas

ROSES.

See our display ad on Roses, page 54 of this issue.

OSARKS PLANT FARMS, Inc.

Seminole Drive Springfield, Mo.

MULTIFLORA JAPONICA ROSE STOCK.

Rooted cuttings carefully graded for bud-

dling stock, \$35.00 per 1000; \$300.00 per 10,000.

Can also be used for hedge planting.

GERARD K. KYLN, Inc. Mentor, Ohio

SEEDS

SEEDS.

For growers of ornamentals we offer suit-

able seed stocks of the following:

	1/4-lb.	1-lb.
Abies concolor, Colorado.....	\$0.80	\$3.25
Araucaria excelsa.....	1.00	3.00
Camelia japonica.....	.50	1.50
Cedrus deodara.....	.90	2.75
Chamaecyparis lawsoniana.....	.55	1.60
lawsoniana argentea.....	1.00	3.00
lawsoniana aurea.....	.80	2.50
lawsoniana pendula glauca.....	.90	2.75
lawsoniana pyramidalis.....	.90	2.75
obtusata.....	1.00	2.85
pisifera.....	1.20	3.75
Cryptomeria japonica.....	.65	2.00
Cupressus arizonica.....	.90	2.85
macrocarpa.....	.75	2.25
sempervirens stricta.....	.25	.90
Ginkgo biloba.....	.85	
Juniperus chinensis, clean.....	1.10	3.25
communis, upright, pyramidal, clean.....	.80	2.50
communis, spreading, bush type, d.b.....	1.10	3.25
communis, spreading, dwarf type, d.b.....	1.20	3.50
scopulorum, dainty-leaved, southern form, clean.....	1.25	4.75
virginiana, clean.....	1.00	3.00
Larix europaea.....	.80	2.50
leptolepis.....	1.90	5.75
occidentalis.....	3.35	10.00
Picea excelsa (abies), fast-growing.....	1.50	4.50
Pinus cembra.....	.50	1.50
densiflora.....	.80	2.50
edulis (cembroides edulis).....	.90	2.75
lambertiana (cembroides monophylla).....	1.00	2.75
monticola.....	.80	2.50
montana, bush type.....	.90	2.75
montana, dwarf type.....	1.30	4.00
nigra.....	.80	2.50
ponderosa, fast-growing.....	1.50	4.50
strobilus.....	1.25	3.75
sylvestris, short-needed, moderate grower.....	1.50	4.50
sylvestris, long-needed, fast grower.....	1.70	5.25
sylvestris, true Riga (rigensis) type.....	4.00	12.00
thunbergi.....	1.10	3.25
Pseudotsuga douglasii (taxifolia), fast-growing, hardy type.....	2.65	8.00
Taxus cuspidata, upright, Japanese, clean.....	1.10	3.25
cuspidata, spreading, d.b.....	2.50	7.50
media hickii, d.b.....	3.35	10.00
Thuja orientalis.....	.50	1.50
orientalis, compact type.....	.90	2.75
orientalis, golden form.....	.90	2.75
orientalis, pyramidal type.....	.75	2.25
Also available for growers of seedlings.		
Rosa multiflora, thorny type.....	1.10	3.25
Rosa multiflora, thornless.....	1.40	4.25

F. W. SCHUMACHER

P. O. Box 131 Jamaica Plain 30, Mass.

FRESH 1949 CROP SEEDS.

Longleaf Pine, Pinus palustris.....\$3.00

Slash Pine, Pinus caribaea.....5.00

Chinquapin, Castanea pumila.....1.50

Ilex glabra, smooth-leaved Holly......75

Ilex vomitoria, Yaupon.....1.50

Juglans cordata, Jap. Walnut......60

Cornus florida, White Dogwood......75

Pecan, small......25

STOVALL NURSERY Leakeville, Miss.

OSAGE ORANGE SEEDS.

(Maclura Bois d'Arc).

1949 crop sold out. 1948 crop, \$1.00 to 70c

per lb., F.O.B. here. According to germination

tests in January, 1950, 54 to 33 per cent.

Terms: Cash upon receipt and examination.

Shipped by express.

RAY WICKLIFFE Seneca, Kan.

FROM 1949 CROP.

Halesia tetrapeta (Carolina Silverbell).

1/4-lb., 70c; 1 lb., \$2.00.

Symplocos paniculata (Turquoisberry).

1/4-lb., \$1.10; 1 lb., \$3.00.

Prepared in U. S.

GOLDEN WEeping WILLOW.

Golden bark makes a most attractive tree in winter as well as in summer. Stocky trees with heavy heads on the larger sizes. Order at once before growth starts.

	Each	Each per 100
3 to 4 ft.	\$0.50	\$50.00
4 to 5 ft.	.75	75.00
5 to 6 ft.	1.00	100.00
6 to 8 ft.	1.25	125.00
8 to 10 ft.	2.25	225.00

FORSYTHIA SPECTABILIS.

The choicest variety of forsythia. Nice clean, young stock. Order today before new leaves start.

2 to 3 ft.	.35	.30
3 to 4 ft.	.50	.40

GRAPE MYRTLE.

Nice bushy plants with an abundance of fibrous roots. "Watermelon Red" and other shades of flowers.

1 1/2 to 2 ft.	.40	.35
2 to 3 ft.	.50	.40

JASMINUM PRIMULINUM.

The handsome, large-flowered, spring-blooming variety, not hardy north. Heavy plants.

3 to 4 ft.	.60	.50
------------	-----	-----

ELAEAGNUS PUNGENS COMPACTA.

A compact-type of evergreen elaeagnus. Nice bushy plants at a bargain.

2 to 3 ft.	1.75	1.50
------------	------	------

2 AZALEAS, ILEX OPACA, JUNIPERUS VIRGINIANA, FLOWERING CRABS, VITEA, WEIGELA, OSMANTHUS, WHITE ASH, CONCORD GRAPE and many other items of quality are in our wholesale list. Send for copy today. All prices F.O.B. Exmore, packing additional.

THE TANKARD NURSERIES

Exmore, Va.

OUR STOCK IS TRUE-TO-NAME

AND TOP-QUALITY.

	Each	Per doz.
--	------	----------

Althaea (Hibiscus syriacus) Effe Riegel. The finest double white, 2 to 3 ft. \$0.60 \$7.00

Oleander, Mrs. Swanson. Semi-double, dainty shell-pink. Finest new, 24 to 30 ins. 1.00 10.00

Oleander, Riegel's New Hardy. Single, red. A plant of great beauty. Outstanding, 15 to 20 ins. .60 6.00

Mimosa, Albizzia julibrissin. Our most beautiful, small, flower-ing tree, 100 1000

6 to 10 ins. \$ 3.00 \$ 20.00

12 to 18 ins. 4.00 30.00

24 to 30 ins. 7.00 40.00

36 to 40 ins. 12.00 90.00

50 at 100 rate; 500 at 1000 rate.

3 to 4 ft., transplants. 20.00 125.00

4 to 5 ft., transplants. 40.00

6 to 7 ft., transplants. 90.00

Not less than 10 at 100 rate.

Melia, Texas Umbrella Tree. A small tree of great beauty, 15 to 18 ins. 6.00 25.00

20 to 30 ins. 8.00 35.00

Not less than 50 at 100 rate; 500 at 1000 rate.

3 to 4 ft., heavy transplants. 35.00

Not less than 10.

RIEGLER PLANT CO. Experiment, Ga.

HEDGE PLANTS.

AMUR RIVER SOUTH PRIVET.

Undoubtedly as good and probably better than any grown in the South this year. Spaced well in the row to allow for heavy top development. All stock is field-grown, 1 and 2 years and generously graded. Packed well for shipment.

F.O.B. F.O.B. Scottsville, Texas Dallas, Texas

12 to 18 ins., field-grown, B.R. \$ 4.00 \$ 4.50

18 to 24 ins., field-grown, B.R. 6.00 6.50

24 to 30 ins., field-grown, B.R. 8.00 8.50

30 to 36 ins., field-grown, B.R. 10.00 10.50

3 to 4 ft., field-grown, B.R. 15.00 16.00

VERHALEN NURSERY CO.

1114 So. Beckley Dallas, Texas

Your Profits Grow in Verhalen Plants.

CHINESE ELM TREES.

Good, straight, Western-grown elm trees. 8 ft. and better. Per 10 \$12.50

VERHALEN NURSERY CO.

1114 So. Beckley Dallas, Texas

Your Profits Grow in Verhalen Plants.

REMOVAL SALE.

On 20 acres of nursery stock. Medium to large sizes of 40 different varieties including Norway Maples, Taxus, Arborvitae, Ginkgo, Oaks and Lindens. Write us for our price list.

SWAN RIVER NURSERY

615 E. Main St. Patchogue, L. I., N. Y.

PEARS, 2-year.

250 Kieffer, 11/16-in. up. Each \$0.30

150 Kieffer, 9/16 to 11/16-in. .25

100 Kieffer, 7/16 to 9/16-in. .20

Kieffer, 4 to 5 ft. .15

GRAPEVINES, 2-year.

300 Concord, No. 1. .05

100 Concord, No. 2. .04

SHADE TREES.

10 Ash, 2 to 3-in. cal., 12 to 15 ft. 1.25

10 Lombardy Poplar, 12 to 15 ft. 1.00

10 Tulip, 8 to 10 ft., heavy cal. 1.00

10 Redbud, 4 to 10 ft., heavy cal. 1.00

SHRUBS, 2 and 3-year.

30 Forsythia, 3 to 4 ft., heavy. .25

30 Lilac, Common Purple, 3 to 4 ft., heavy. .30

20 Lilac, Common Purple, 2 to 3 ft., heavy. .25

20 Weigela, Pink, 4 to 5 ft., heavy. .25

50 Weigela, Pink, 3 to 4 ft., heavy. .20

Minimum order, 30 trees or shrubs and 100 grapes. Packed free if cash with order.

ELAN NURSERIES

Station B, Box 55 Fort Smith, Ark.

FOR SPRING LINING-OUT STOCK WE OFFER NATIVE SHRUBS, EVERGREENS AND SHADE TREES.

Specials Per 100 Per 1000

ILEX OPACA 6 to 12 ins. s. \$3.50 \$30.00

12 to 18 ins. s. 4.50 40.00

JUNIPERUS VIRGINIANA 6 to 12 ins. s. 3.50 30.00

12 to 15 ins. s. 4.50 40.00

LONICERA JAPONICA HALLIANA Small L.O. div. 1.00 8.00

Medium L.O. div. 1.25 10.00

CERCIS CANADENSIS 12 to 18 ins. s. 2.50 20.00

18 to 24 ins. s. 3.00 25.00

LIRIODENDRON TULIPIFERA 12 to 18 ins. s. 1.75 15.00

18 to 24 ins. s. 2.00 18.00

2 per cent discount cash with order.

GLOBE NURSERIES

Box 249, Dept. A.N. McMinnville, Tenn.

LINING-OUT STOCK.

Honeysuckle, Hecckrott, 10 to 12 ins. \$14.00

Euonymus coloratus, 1-yr. transplants. 12.00

Euonymus carrierei, 1-yr. transplants. 10.00

Euonymus radicans, 1-yr. transplants. 10.00

Spiraea foebeli, 8 to 10 ins. 7.50

Red Cedar, seedlings, 4 to 6 ins. 4.00

Red Cedar, 4 to 6 ins. 12.00

ROOTED CUTTINGS.

Snowball, common, well rooted. 8.00

Euonymus radicans, well rooted. 7.50

Euonymus carrierei, well rooted. 7.50

Euonymus coloratus, well rooted. 8.00

HARDWOOD CUTTINGS.

Hand-made, 7 ins. Per 1000

California Privet \$3.50

Amur River North Privet. 3.50

Lombardy Poplar. 3.00

Cash, please. No charge for packing.

PRITCHARD NURSERIES

Rt. 4 Ottawa, Kan.

Mimosa Rosea Seedlings.

(Albizia julibrissin rosea.) Hardy in zone 5

Per 100

150 6 to 12 ins. \$ 5.00

450 12 to 18 ins. 7.50

400 18 to 24 ins. 10.00

475 2 to 3 ft. 12.50

110 3 to 4 ft. 15.00

Sweet Gum Seedlings.

(Liquidambar styraciflua.) From northern seeds.

1395 18 to 24 ins. 9.00

2320 2 to 3 ft. 12.00

1425 3 to 4 ft. 20.00

Nanking Cherry.

(Prunus tomentosa.) Heavy, field-grown plants.

178 3 to 4 ft. 35.00

287 4 to 5 ft. 50.00

FORREST KEELING NURSERY

Elmhurst, Mo.

SHRUBS AND EVERGREENS.

Each

425 3 to 6 ins. \$0.08

475 6 to 12 ins. .10

150 12 to 15 ins. .12

Cotoneaster acutifolia, 1-yr. S. .14

160 12 to 18 ins. .14

Rhamnus cathartica, 1-yr. S. .04

275 4 to 8 ins. .04

200 8 to 12 ins. .05

Barberry, Green, 3-yr. fr. br. .10

600 12 to 18 ins. .10

Honeysuckle lat. pink, heavy .35

200 3 to 4 ft. .02

Thuja orientalis, 1-yr. S. 1 to 3 ins. .02

Order any amount needed. Packing free. 2 per cent for cash with order, F.O.B. nursery.

CORNELL NURSERY

Cornell, Ill.

PINK DOGWOOD.

30 to 18 ins., B.R. \$1.75 each

24 to 30 ins., B.R. 1.40 each

18 to 24 ins., B.R. 1.00 each

PINK DOGWOOD, liners, dormant, budded fall of 1949, 25c each.

WHITE DOGWOOD.

3 to 4 ft., B.R. .60 each

2 to 3 ft., B.R. .40 each

IKE HAWKERSMITH NURSERY

Winchester, Tenn.

ROSA MULTIFLORA JAPONICA

(Thornless).

Good for budding, hedges and soil erosion. White flowers, very hardy.

Per 100

2-yr. No. 1, 18 to 24 ins. \$10.00

3-yr. No. 1, 2 to 3 ft. 15.00

3-in. cuttings, hand-made, generous count. Wood cut early, cuttings made up early. \$3.00 per 100; \$10.00 per 1000.

2-YR. FRENCH PUSSY WILLOWS.

Per 100

18 to 24 ins. \$15.00

2 to 3 ft. 20.00

3 to 4 ft. 25.00

5 to 6 ft. 45.00

FINGER LAKES NURSERIES

Geneva, N. Y.

RED JAPANESE MAPLE SEEDLINGS.

Carefully selected for good red color.

Per 100

Acer palmatum atropurpureum 8 to 10 ins. XX. \$30.00

6 to 8 ins. XX. 25.00

25 per cent with order, please.

ELWOOD HUBBS

204 Delaware Ave. Palmyra, N. J.

Russian Olive Seedlings Per 1000

6 to 12 ins., 1-yr. \$10.80

18 to 24 ins., 1-yr. 24.00

2 to 3 ft., 1-yr. 35.00

Chinese Elm Seedlings 12 to 18 ins., 1-yr. 8.20

18 to 24 ins., 1-yr. 12.00

FRANK MILLER, JR., NURSERY

R.R. 1 Manhattan, Kan.

PINK DOGWOOD, Each

250 18 to 24 ins., liners. \$1.50

300 12 to 18 ins., liners. 3.00

650 6 to 12 ins., liners. 5.00

All branched, 1-yr. buds. Minimum order 10.

TENNESSEE NURSERY CO. Cleveland, Tenn.

Box 1

Lombardy Poplars, 6 to 8 ft., \$20.00 per 100; 4 to 6 ft., \$12.00 per 100; 3 to 4 ft., \$7.00 per 100.

Carolina Poplars, 8 to 10 ft., \$50.00 per 100; 6 to 8 ft., \$20.00 per 100.

Chinese Lombardy Poplars, 5 to 6 ft., \$10.00 per 100.

PONZER NURSERY Rolla, Mo.

CHINESE ELMS.

Per 100 Per 1000

3 to 4 ft. \$5.50 \$45.00

2 to 3 ft. 3.00 25.00

18 to 24 ins. 2.50 20.00

12 to 18 ins. 1.75 15.00

6 to 12 ins. 1.20 10.00

CLINTON NURSERY & GHSE, Clinton, Okla.

LINING-OUT STOCK.

Physocarpus opulifolius seedlings, strong, freshly dug, sizes from 8 to 10 ins. to 2 1/2 to 3 ft., from \$4.50 to \$6.50 per 100. Could take other stock in trade.

HALSTED ROAD NURSERIES

1925 Halsted Rd. Rockford, Ill.

Magnolia soulangeana, 2 to 3 ft.

Magnolia soulangeana, 3 to 4 ft.

Magnolia soulangeana nigra, 2 to 3 ft.

Magnolia soulangeana nigra, 3 to 4 ft.

Write for price list.

HATHAWAY'S NURSERY

Route 84 Madison, Ohio

MAGNOLIA GRANDIFLORA SEED-

LINGS, 2 to 5 ins., 1-yr. stock, field bed-

grown, partial shade, \$65.00 per 1000. 250

VEGETABLE PLANTS—Continued

SAGE
Holt's mammoth, broad-leaved, strong, 2-year plants, field-grown, \$7.00 per 100. Cash with order, packing free.

TROMBLE NURSERY
Bentonville, Ark.

VEGETABLE ROOTS

ASPARAGUS ROOTS
Booking orders for spring delivery.
Washington, strong, well graded.
Per 100 Per 1000
1-year 6 ins. \$1.50 \$12.00
2-year 2.50 20.00

ROUDEBUSH GARDENS
Rt. 3, Box 397 Dayton 3, Ohio

VINES

GRAPE CUTTINGS
Concord and Fredonia, \$3.50 per 1000. F.O.B. here. Tied with wire, 100 to bunch. Guaranteed true-to-name. Cut from our young, thrifty vineyard by experienced workmen.

IDEAL FRUIT FARM
Stillwell, Okla.

Start Your Offer Now
in the American Nurseryman
And Watch Sales Climb.

MISCELLANEOUS

Rhododendron hybrid seedlings, Per 100
4 to 6 ins. \$25.00
6 to 8 ins. 35.00
Azalea occidentalis, 8 to 12 ins. 35.00
Azalea Alta Clarence, 4 to 6 ins. 25.00
Azalea schlippenbachii, 4 to 6 ins. 25.00
Phlox, named, liners, \$100.00 per 1000. 25.00
Phlox, named, liners, \$100.00 per 1000. 20.00
Trollius, Julie hybrid. 20.00
Primrose, cashmiriana 20.00
Primrose, polyanthus 15.00
Bleeding Hearts, at nursery. 25.00
Heather, mediterranea and carnea (red) 50.00
Also many choice perennials at 17c.

PORTLAND AVENUE NURSERY
1409 E. 59th St. Tacoma, Wash.

WHITE SCUPPERNON VINES.
2-year-old, 25c ea., \$25.00 per 100.
3-year-old, 35c ea., \$35.00 per 100.

Male Scuppernon same price.
VIRGINIA LIVE OAKS.
2-year-old, 25c ea., \$25.00 per 100.

STOVALL NURSERY
Leaksville, Miss.

CENTPEDE LAWN GRASS.
No mowing needed. Used for southern lawns. Write for circular. **CENTPEDE NURSERY, Rt. 4, Jackson, Miss.**

SUPPLIES

ACE BOXES ARE ACE HIGH.
FLATS, COMBINATION and BULB BOXES, shipped knocked down or made up, per 100, F.O.B. Kansas City, Mo.
Inside measure K.D. Made up
16x11½x2½ ins. \$17.00 \$20.00
18x12x2½ ins. 18.00 21.00
20x14x2½ ins. 23.00 26.00
22x15x3½ ins. 28.00 31.00
Other sizes quoted on request. Orders of 300, deduct \$1.00. Orders less than 100, add 50c. Special prices on 1000 or more. Bottoms and sides ¾-in., ends ½-in. Good grade lumber. Check must be attached to order. Prompt delivery.

COMBINATION BOXES.
Priced per 100, F.O.B. Kansas City, Mo.
Outside measure K.D. Made up
12x6x5 ins. \$12.00 \$14.00
14x8x5 ins. 14.00 16.00
16x8x5 ins. 16.00 18.00
18x8x5 ins. 18.00 20.00
20x6x5 ins. 20.00 21.00
In quantities of 300, deduct \$1.00 per 100. Less than 100, add 50c.

ACE BOX CO., Inc.
1673 Madison Ave. Kansas City 6, Mo.
Phone: Victor 4494.

Made from a good grade of Southern Yellow Pine, since Cypress is not available. Standard specifications, inside measurements.

KNOCK-DOWN FLATS.
16x12x2½ \$18.82 per 100
16x14x2½ 24.98 per 100
20x14x2½ 24.56 per 100
20x14x3½ 28.68 per 100
22½x15x2½ 28.14 per 100
22½x15x3½ 32.63 per 100
All other sizes quoted on request. Prices F.O.B. Birmingham.

We are manufacturers, not jobbers. Freight to any point is a small item per Flat. Our Flats are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.

We make mixed shipments of flats, plant boxes and spray boards.

HIGHTOWER BOX & TANK CO.
Birmingham, Ala.

GIBALTAR Frost Covers pay for themselves. Economical, long-lasting, ideal for windbreaks. 6 ft. wide; 50 ft., \$13.75; 100 ft., \$26.00; 150 ft., \$39.00. **NEW AMSTERDAM IMPORT, 122 Chambers St., New York 7, N. Y.**

DAHLIA OR TREE LABELS.

Priced per 1000
Plain Painted
3¼x¾ ins., notched, not wired. \$2.50 \$3.00
3¼x¾ ins., wired, copper. 3.30 3.50

POT LABELS.

4x¾ ins. (cartons 1000 each) ... 3.00 3.30
5x¾ ins. (cartons 1000 each) ... 3.30 3.50
6x¾ ins. (cartons 1000 each) ... 3.50 4.00

8x¾ ins. (cartons 500 each) ... 2.50 3.00
10x¾ ins. (cartons 500 each) ... 3.00 3.50

GARDEN STAKES.

Priced per carton.
8x ¾ ins. (cartons 250 each) ... 2.00 2.25
10x ¾ ins. (cartons 250 each) ... 2.25 2.50
12x1½ ins. (cartons 100 each) ... 1.50 1.75

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

YOHO & HOOKER Youngstown 2, Ohio

ELECTRIC PROPAGATING KITS.
FOR GREENHOUSE BENCHES OR HOT-BEDS—Each contains long-lasting **HEAT-SUM CABLE**, Soil Thermostat, Pilot Lamp and Thermometer.

Sq. Ft.	Length and Unit Heated	Volts	No. Units	Price
A 20	200	110	1- 60 ft.	\$18.93
B 40	400	110	2- 60 ft.	23.83
D 80	800	110	1- 300 ft.	32.43
E 150	1500	110	1- 500 ft.	48.93
F 300	3000	220	1-1000 ft.	76.30

All prices F.O.B. Seattle.
COLDFRAME FROST PROTECTION—Same equipment will protect 50 PER CENT MORE AREA. LITERATURE ON REQUEST.
L. N. ROBERSON CO.
1539 East 103rd St. Seattle 55, Wash.

Now is the time to build new low-cost shade houses, or to replace your old worn-out lath or slat houses with Brand-New Low-Cost Heavy Steel Wire Netting. This material is made of 16-gauge steel wire 2x6-in. mesh, galvanized with steel wool and coated with high-grade enamel. Each roll is 75 ft. long by 6 ft. wide, containing 450 sq. ft. inexpensive and easy-to-construct lath houses built with this netting provide uniform shade ideal for Azaleas, Camellias and for all other plants. Available for immediate shipment. Write for descriptive folder and prices to cover any quantity you may need from one roll to carlot shipments.

H. M. OWEN E. A. FARLEY
P. O. Box 946 3333 Gentilly Blvd.
Columbus, Miss. New Orleans, La.

MICHIGAN PEAT.
"HIGH NITROGEN-QUALITY PEAT"
Reliable, efficient, economical, 81 per cent organic, pH 4. Serving leading nurseries for over 30 years. Fine, medium and coarse grinds. OUR BAGS ARE HUGE! Carloads, truckloads, bulk and bagged.

2 to 100 bags (4 to 5 bu.), only \$1.50 ea.
F.O.B. Capac, Mich. Dealer franchises open. Tests prove M.P. does a better job cheaper. WHY PAY MORE? Order today!
MICHIGAN PEAT, Inc.
267 Fifth Ave. New York 16, N. Y.

MINNESOTA WHITE CEDAR FLATS.
12x16x2½ \$18.25 per 100
14x20x2½ 22.00 per 100
14x20x3½ 25.00 per 100
Other sizes quoted on request. Also crating and other lumber. Aspen and Pine. F.O.B. Cook, Minn. Please attach check.
H. C. HILL & SONS, Cook Minn.

TREE DIGGERS.
The Tree Digger gets all the roots with your Fruit Trees, Shade Trees, Flowering Shrubs, Rosebushes, etc. Nursery stock properly dug with all the roots means satisfied customers. Particulars on request.
RUSSELL WILSON
Winnsboro, Tex.

HARDWOOD CUTTING MACHINES.
Save time, save labor, save money. Use Wilson's Hardwood Cutting Machine to make up your cuttings. Cutting blades made of best steel, sharpened and will keep a keen cutting edge. Particulars on request.
RUSSELL WILSON
Winnsboro, Tex.

PEAT MOSS.
Highest-quality acid sphagnum peat moss weighing about 1½ lbs. per loose bushel, 120-lb. hydraulic-compressed bales, \$3.25 each; 16 or more bales, \$3.00 each. Large burlap half-bale bags, \$1.60 each; 10 or more, \$1.50 each.
COLBY PIONEER PEAT CO., Inc.
Hanlontown, Iowa

WISCONSIN'S QUALITY SPHAGNUM MOSS.
Clean, long-fibered, solidly packed in burlapped or wired bales of standard size, direct from drying beds. None better.
Trucked when feasible.
WARRENS MOSS CO., Box 7, Warrens Wis.

HIGH NITROGEN HORTICULTURAL PEAT.
Unexcelled for soil-improving work. Used by leading growers for a quarter century. One 3-bushel bag, \$1.25; 10 bags, \$1.15; 25 bags or more, \$1.00 each.
COLBY PIONEER PEAT CO., Inc.
Hanlontown, Iowa

SPHAGNUM MOSS.
Write for prices on burlapped and wire-bound bales.
THOMAS RESHEL City Point, Wis.

G. E. ELECTRIC SOIL HEATING KITS.
20% Reduction on Cables and Thermostats.
60-ft. Cable and Thermo., for 3 x 6 ft., \$14.60
120-ft. Cable and Thermo., for 5 x 6 ft., \$27.52
E. FULGHAM, P. O. Box 497, McComb, Miss.

PAY LESS FOR WOOD LABELS. High quality, fully guaranteed. Write for prices and samples. **ANTHONY & Co., Escanaba, Mich.**

TRADE BOOKS

Reprints of the recent series of articles on the "Propagation of Hybrid Rhododendrons" are now available in handy booklet form. Price, \$1.00 postpaid.

KOSTER NURSERY

James S. Wells, Mgr.
Bridgeton, N. J.

Surplus Stock
can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads.

WANTED

WANTED.
Liners of good varieties for growing on. Also heavy liners of Ilex and Taxus, spreading.

Terms: Cash.
ELWOOD HUBBS
204 Delaware Ave.
Palmyra, N. J.

WANTED.

2-yr., No. 1 Concord Grapevines. Also other fruits and ornamentals, including specialties.
ARTHUR I. ZEIGER
1225 Carnahan Ave. Pittsburgh 16, Pa.

WANTED TO BUY.

Myrtle (Vinca Minor), Bowles variety, 5000 or more and Helleborus clumps.
W. A. NATOPOR CO.
4400 Reading Rd. Cincinnati 29, Ohio

NURSERY STOCK WANTED.
Juniperus sargentii.
Sizes, 12 ins. and up.
THE PETER CASCIO NURSERY
2600 Albany Ave. West Hartford 7, Conn.

Quick — Convenient — Cheap!
Selling through the Classified Ads
of the American Nurseryman.

NEW ENGLAND
EDUCATIONAL DAY.

[Continued from page 43.]

twenty-five inches high if the grade were two to three feet. He wanted full delivery of an order; if 100 are ordered in fall and only seventy-five delivered in spring, the retailer may be forced to disappoint customers with whom he has firm commitments.

Stock should be dug properly and balled and burlapped with care, asserted Mr. Wyman. It is short-sighted to spend from eight to ten years growing an evergreen and then treat it shabbily in digging or balling.

Stock must stand repeated handling in the retail salesyard, whereas it is handled only once or twice in landscape planting. Hence, balling is more important in the former case. Men should be trained to do the job right.

Labeling is important, and labeling correctly is more important. Evergreens that are tied about the top during digging should be handled with care. Some types do not spring back easily to their former shape if tied improperly.

Stock should be delivered on time, packed properly on long hauls, covered in truck transit and grade up to sample if one is submitted.

The retailer's reputation, asserted

Sprinkler Sales Make Profits for Nurseries



And nursery sales drop lawn sprinkler prospects in your lap. Think how many you could have sold last year if you had been a dealer!

You don't have to be an expert; we furnish engineering service FREE. Our systems come in three price ranges, can be sold on easy FHA terms through banks. They're years ahead in engineering, offer automatic features and other conveniences that clinch sales.

Dealership Plan for Nurseries and descriptive literature FREE on request. Write today for both.

TEXAS LAWN SPRINKLER CO., INC.

5422 RED FIELD STREET

LAKE SIDE-3149

DALLAS 9, TEXAS

Mr. Wyman, depends upon the stock the wholesaler supplies him. Hence, proper handling of stock is as important to one as to the other.

"A Wholesaler Answers Back" was the program topic of the remarks of Alfred Angel, Boulevard Nurseries, Newport, R. I. Mr. Angel said that many of the criticisms were well founded—too true in the spring when the wholesaler is busiest. He reminded his audience that some post-war problems were still with us after four years, because it takes from six to eight years to grow some types of stock. Shortages cause difficulty, and top sizes are scarce after two poor growing years in New England, the cost of the smaller sizes consequently being the same, though selling prices are lower. Labor still is not up to prewar standard.

Grading standards should be more specific, said Mr. Angel, who further suggested that they were not too well known. He thought that stock from a reputable nursery would have enough plants above grade to average any below grade. Some retailers, however, want stock at a price, rather than of quality.

Practices of the retail nurserymen often were no better than those Mr. Wyman ascribed to the wholesalers,

NEW!! NEW!! CYPRESS PLANT BANDS

Won't steal your soil nitrogen

That's been the big objection to old-type, wood-veneer plant bands. They begin to disintegrate as soon as your potting soil comes in contact with them. As they rot, they use more and more of the nitrogen needed by the plants.

These new Cypress Plant bands deteriorate so slowly that little or no nitrogen is taken from the plants. Plants grow faster. Plant bands last longer. Cost no more. Improved slotted type; easily set up, and easily removed. Write for literature.

Packed 1000 to package.

Per 1000	Per 1000
1 3/4 x 1 3/4 x 2 1/2 ins. \$3.80	3 x 3 x 3 ins. \$5.00
2 x 2 x 2 1/2 ins. 4.00	3 x 3 x 4 ins. 5.20
2 1/2 x 2 1/2 x 3 ins. 4.60	4 x 4 x 4 ins. 6.00

Prices F.O.B. Waynesboro, Pa., or Memphis, Tenn. Discounts on quantity lots.

APPALACHIAN NURSERIES WAYNESBORO, PA.

Growers of Lining-out Stock and Perennials

use rich... **Hyper-Humus**

PROFIT TWO WAYS



The CULTIVATED Organic

HYPER-HUMUS CO.,

1. Use HYPER-HUMUS in Your Flats. Fill your flats and coldframes with a mixture of Hyper-Humus, compost and topsoil, in equal parts. Raise stronger, better seedlings.
2. Sell HYPER-HUMUS to your customers. You'll find it consistently in demand by your many customers.

Write for Literature and Quotations

Box 31, Newton, N. J.

WANT ADS

Help and Situation Wanted and For Sale advertisements.

Display: \$3.00 per inch, each insertion.

Lines: 25c line; minimum order **\$2.00**.

HELP WANTED

An Unusual Opportunity

NURSERY SUPERINTENDENT WANTED

for a large, long-established midwestern nursery growing a general line of stock exclusively for wholesale. Large acreage. Most modern facilities, equipment and machinery. Very strong financial position. Applicant should be 35 to 50 years old, thoroughly trained, well experienced and capable of effectively organizing work and efficiently directing operations of more than 100 men. Please give complete information in first letter, including age, training, experience, family, present employer, salary expected, etc.

Address Box 689, care of American Nurseryman.

HELP WANTED

Landscape salesman capable of meeting clients, selling landscape jobs and making sales at nursery salesgrounds. Must be able to draw plans and carry out jobs to satisfactory completion. State experience and include a picture or plan of some recent work. This location is in northern Ohio with an unusually progressive organization. Address Box 698, care of American Nurseryman.

HELP WANTED

Propagator, with experience in general line of nursery stock, capable of taking charge of greenhouses. Good working and living conditions.

GRESHAM'S NURSERY

R. F. D. 9, Box 82 Richmond, Va.

HELP WANTED

Wholesale sales representation in Illinois, Indiana, Wisconsin and Michigan for lining-out and finished stock by leading midwestern nursery. Address Box 695, care of American Nurseryman.

HELP WANTED

Graduate landscape architect for leading midwestern nursery. State age, experience and salary expected in first letter. Replies confidential. Address Box 694, care of American Nurseryman.

HELP WANTED

Graduate landscape architect, or landscape salesman who can draw plans, to sell and supervise. State age, experience and salary expected. Address Box 704, care of American Nurseryman.

HELP WANTED

Nursery concern on Long Island has a position for an experienced working foreman. Must be aggressive, able to sell and handle men. State age, experience, references and salary expected in first letter. Address Box 702, care of American Nurseryman.

WANTED—Salesman for expanding, established Iowa landscape contractor and for specialty line for year-around work. Permanent job with advancement and good earnings. Address Box 700, care of American Nurseryman.

FOR SALE

Profitable nursery located near Detroit and its numerous, fast-growing suburbs. Consists of 81 acres of the finest loam in Michigan, 60 acres tiled. 50 acres are planted now with approximately 80,000 leading varieties of young, thrifty evergreens from 12 ins. to 4 ft., such as yews, pyramids, pfitzers, grafted junipers, Colorado blue spruce and other best-selling varieties, all of them in checkered rows, 40 x 40 ins. Modern buildings and all up-to-date nursery equipment. Doing a good wholesale and retail business. Must go out of business because of age. Will consider good nurseryman with money and knowledge to work it in shares. Will sell entire nursery or the 50 acres of evergreens, with or without tools. The price is less than cost. For further information write to Box 690, care of American Nurseryman.

FOR SALE

Retail nursery business. Downtown location in small town in North Bay area, California. Approximately 8,000 population in area served. No competitor nearer than 20 miles. 3-year lease, option for 5 more. Artistic store, lath house, warehouse. Price \$5,000.00, plus inventory of stock. Write Box 691, care of American Nurseryman.

SITUATION WANTED

Nurseryman, experienced in all operations of ornamental, horticultural and forestry nursery, skilled arborist and landscape designer, desires a position. Graduate from a European and an American college as a forester. Experience gained both in Europe and in the U. S. Middle aged, married. Excellent recommendations. Address Box 699, care of American Nurseryman.

SITUATION WANTED

Hollander (from Booktop), a first-class propagator of perennials, 1 year in America, middle-aged, married, trustworthy, knows how to handle men, seeks position where he can display his trade knowledge. Is also willing to begin a nursery to share expenses together. Prefers small business with good possibilities. Address Box 701, care of American Nurseryman.

FOR SALE

Landscape business including all modern equipment in good condition. \$30,000.00 per year income. Located in suburb of Chicago. Address replies to Box 703, care of American Nurseryman.

said Mr. Angel. Too few retailers' trucks brought their own canvas to cover bare-root stock. Wholesalers give away much canvas or burlap to cover such orders. In conclusion, he asserted the wholesaler was doing his best and that good results could be had by cooperation between the seller and buyer.

The resulting discussion centered on trade prices to nursery buyers in small quantities and wholesale prices to users of large quantities. It was suggested that the answer lay in

quantity prices per ten, per hundred and per thousand, instead of wholesale or trade discounts.

The concluding topic was "What Responsibilities Does a Landscape Foreman Have in Carrying Out Jobs?" To provide the answers, a panel was provided of landscape foremen from three well known member firms: Raymond Hopkins, Peter Cascio Nurseries, West Hartford, Conn.; Robert Kane, Wyman's Framingham Nurseries, Framingham, Mass., and Linwood Robbins, Bay

State Nurseries, North Abington, Mass. To these men the moderator put questions as to what a landscape foreman should do under a situation he described. The members of the panel had not been given any preparation, nor did they know beforehand what questions would be put to them. So the promptness and detail with which they made answer in most cases gave the measure of the caliber of the men employed. Both they and the moderator received high commendation at the conclusion of the program by an appreciative audience.

MIDWEST TREE CONFERENCE.

[Continued from page 12.]

Six years ago the remnants of two formerly strong groups, the Colorado State Forestry Association and the Denver Society of Ornamental Horticulture, were reorganized under the name of the Colorado Forestry and Horticulture Association. A business office for the association was established, and publication was begun of a monthly magazine, the Green Thumb.

Officers of the organization and volunteer assistants have sponsored and encouraged horticultural projects in the schools and the city forestry units in the 4-H Clubs and have conducted trips through the parks and woods for Boy Scouts, Girl Scouts, Campfire Girls, Y. M. C. A., Y. W. C. A., church recreational societies and similar groups. Exhibits of leaves, polished wood, flowers, branch cuts to illustrate pruning methods and similar items have been displayed at flower shows, conventions, schools and libraries. Lectures were given at garden clubs, newspaper articles published and radio talks given. In every possible way the program has been publicized, said Mr. Kelly, and considerable progress has been made. "Trees mean so much to a community," continued Mr. Kelly, "that we must teach the homeowners to get away from the attitude of taking them for granted."

Moisture as Growth Factor.

"All life is dependent upon water and cannot function properly unless the correct amount is present at the correct time," declared Alex N. Klose, of the Milwaukee Equipment Mfg. Co., Milwaukee, Wis., in his discussion of "Moisture as a Growth Factor." Although water does not always have the same general influence as some of the other conditions necessary for tree growth, it can be placed near the head of the list in importance, he emphasized. While the amount of water contained in a plant varies with the species, the environment and the season, there are no water-free plant tissues.

The hardness of a plant to cold is related to the water content of the plant tissues; the greater the percentage of water held in colloidal form in the plant cells, the greater the resistance of the plant to cold. Plants transpire a huge volume of water through their leaves. "For example," said Mr. Klose, "if a cornfield would accumulate all the moisture thrown into the air by the leaves, a lake five feet deep would be formed by the end of a hundred-day growing season."

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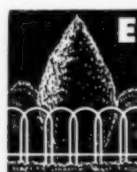
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moss to sand soil greatly increases its water-holding capacity, but the same material added to clay soil has little effect, Mr. Klose stated. A continual water shortage will cause dwarfing of a plant, discolored foliage and leaf drop. In the leaves of trees suffering from drought, dead or browned areas may appear, or the leaves may be blighted or burned at the margins or tips. These purely physical reactions are sometimes mistaken for disease; therefore, Mr. Klose warned, in diagnosing plant troubles all environmental factors should be checked.

Tree Insects and Diseases.

Dr. J. C. Carter, of the Illinois Natural History Survey, Urbana, used slides to supplement his description of the symptoms and effects of the oak wilt disease and elm phloem necrosis. The oak wilt disease is now known to be present in Minnesota, Wisconsin, Illinois, Iowa, Missouri and Indiana and appears to be spreading. No definite control measures have yet been found. It has been determined that the disease can be transmitted from a diseased to a healthy tree through natural root grafts; the means by which it is carried to distant trees is still unknown.

Elm phloem necrosis, a virus disease affecting the American elm and its varieties, is known to be spread by a tiny leaf hopper. Thorough applications of special formulations of DDT are a recommended control measure. Dr. Carter mentioned several towns in southern Illinois in which nearly all the elms have been killed by this disease. For the control of certain fungous diseases such as anthracnose, cedar apple rust and walnut leaf spot, Dr. Carter suggested the use of several of the newer fungicides. Puritized agricultural spray is effective against sycamore anthracnose, walnut leaf spot and similar diseases. Fermate and Elgetol may be used to advantage against cedar apple rust. Timing in the application of these sprays is important, Dr. Carter warned.

Dr. A. J. Riker, of the department of plant pathology, University of Wisconsin, Madison, in his discussion of "Disease Resistance in Trees," stated that most of our present shade trees are domesticated wild trees, and he suggested that science develop new trees to meet the changed environmental conditions. As examples of such trees that have been developed, he cited the Christine Buisman elm, which is resistant to both the Dutch elm disease and elm phloem necrosis, and the hybrid chestnut varieties that are resistant to the chestnut blight. Using color slides taken

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at the University Farm nursery at Madison, Dr. Riker described the methods used in propagating hybrid poplars and the results obtained. Some of the hybrid poplars grew to a height of six feet the first year, he said, and at the end of the third year were eighteen feet tall.

An interesting and informative paper on "New Insecticides and Control of Tree and Shrub Pests" was presented by Dr. H. M. Harris, of the department of zoology and entomology, Iowa State College, Ames. Synthetic organic insecticides developed within the past few years, he said, include DDT, BHC, TDE, TEPP, Chlordane, Methoxychlor, Lindane, Pyrenone, Parathion, Toxaphene, Aldrin, Aramite and others not yet on the market. Warning that not one of these insecticides had been used long enough to learn of its full potentialities and limitations, Dr. Harris said that enough information was available to indicate bright promise for the future.

Of the new insecticides, DDT is the most widely known and often is the standard with which the others are compared. One of its great features is its residual effect. It is effective against cankerworm, tussock moth larvae, webworm and many others, but red spider and certain



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species of aphids are immune. Certain plants are sensitive to it. The general dosage is one pound actual DDT, or two pounds of the fifty per cent wettable powder, per hundred gallons of water. It is most effective if applied when the insect larvae are young.

Chlordane is effective against certain leaf miners, soil-infesting grubs, ants, box-elder bugs and, reportedly, walnut datana. Toxaphene appears to do a good job in cleaning up an infestation of bagworm. BHC and Lindane are useful in control of red spider and plant mites. Aramite also is said to be effective against various plant mites. TEPP and Parathion are also effective against these pests, but must be used with extreme caution because of the dangers to the operator. Some of the dinitro sprays give good control of red spider, aphids and scale insects. Dr. Harris cautioned users of these new insecticides to follow manufacturers' directions, since dosages might vary with the formulation, the pest involved and the kind of plant being treated. He warned that all insecticides are poison and should be used with caution.

Speaking on "Development of Chemical Formulations," G. W. Flint, of the Standard Oil Co. of Indiana, said that the team which is necessary for the development of quality insecticidal and herbicidal formulations must include, in addition to a chemist, an entomologist, a botanist and a horticulturist. When a new insecticidal or weed-killing chemical is discovered, Mr. Flint stated, the product development chemist must incorporate the chemical into a formulation which will have commercial acceptance and give satisfactory control under a wide variety of conditions. To accomplish this the chemist must have some knowledge of plants, insects and the manner in which the material will be used. Using charts and slides to illustrate his discussion, Mr. Flint told of the problems encountered in the development of various types of formulations, including dust, wettable powders, prepared emulsion, emulsifiable and nonemulsifiable oil base sprays and emulsifiable concentrate.

Plane Trees and Elm Diseases.

Dr. T. W. Bretz, of the United States Department of Agriculture, Missouri agricultural experiment station, Columbia, Mo., spoke on "Canker Stain of Plane Trees and Elm Mosaic," using color slides to supplement his description of the symptoms and effects of these two diseases. Canker stain, said Dr. Bretz, is caused by a fungus and may attack both the London plane and the

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American sycamore. It may occur in either branches or trunk, the first symptom being a dark brown or black elongated discoloration or depressed area in the bark. These first cankers may range from two to forty inches in length and up to two inches in width, widening each succeeding year. The cambium is killed wherever the canker touches it. Once infection has become well established in the trunk, the tree cannot be saved. This disease is unique in that it is spread almost entirely by man and is rarely found in undisturbed areas. It may be transmitted from a diseased to a healthy tree by contaminated tools and equipment used in pruning and by other mechanical means.

Elm mosaic is a virus disease attacking the American elm. It is not widely recognized, said Dr. Bretz, because it is not spectacular in its effect. It seldom, if ever, kills trees, but causes a gradual decline in health over a period of years. Symptoms include extreme variations in leaf size, shape, mosaic pattern and texture; scarcity and bunching of the foliage; mild to moderate brooming of the branches, and a few to many dead limbs. It has been learned recently that the disease may be carried in the seed; other than by this means it is not known how the disease is spread under field conditions. No control measures for the disease are known.

Prof. Karl Dressel, of the department of forestry, Michigan State College, East Lansing, spoke on the subject, "Let's Look with the Client's Eyes." He pointed out that much of the confusion existing in the public mind in regard to tree care is due to misinformation given by unskilled and incompetent arborists.

In the plant forum, led by Prof. Forrest Strong, of the department of botany, Michigan State College, various problems in connection with the care and treatment of shade trees were discussed.

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37. How to Conduct Your Business
38. Economics of Garden Planning
39. Beauty—What It Is
40. Elements of a Successful Garden
41. Texture of Plants and Materials
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KENTUCKY MEETING.

[Continued from page 16.]

best to germinate red cedar seeds, Dr. Chadwick said to gather the seeds in January and February and remove the wax by soaking the seeds in alcohol about four to six hours. The seeds should then be stratified at 40 degrees for seventy-five days and planted so as to allow three weeks before the soil temperature rises above 65 degrees.

Kodachromes on Landscaping.

George Siebenthaler, Siebenthaler Co., Dayton, O., illustrated his discussion of "Some Observations of Good and Bad Practices of Landscaping," with a collection of Kodachrome slides. He stressed planting for mass effect, bringing out the fact that trees are the most important item for producing mass foliage. Plant an attractive view from several points of interest, he said, adding that it should be attractive throughout the year.

Another point to be followed in good landscaping is harmonizing plant material and garden features with the architecture of the building. Garden and landscape features should be kept soft, and garden furniture should be painted in soft tones. Keep outside steps low and broad, he advised, saying that a 4-inch riser with a 16-inch tread is not too extreme. Mr. Siebenthaler also reminded his audience that there should be a direct relation between the living areas in the house and garden and that, when the landscaping is done, it should include provision for the owner to indulge his hobby.

Entertainment.

Following the afternoon program, the nurserymen were guests of the Hillenmeyer Nurseries, Lexington, at a cocktail hour. Well known for their hospitality, the Hillenmeyers were represented by four members of the fourth generation of active nurserymen, Donald, Louis, Jr.; Robert, and Walter, and their wives. Louis Hillenmeyer, Sr., was in Florida.

At the traditional and informal banquet that night, Senator Alvin Kidwell reminisced a bit on personalities and events in Kentucky nursery circles.

Home consultant of the Louisville Courier-Journal, Cissy Gregg was introduced by Herbert Bunton as the most active, attractive and widely read home and garden writer in Kentucky. Miss Gregg spoke briefly of the opportunities for nurserymen to work through the garden editors of

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their local papers in getting sound advice to their patrons and prospective customers. She invited close cooperation with her paper in order to help beautify the Kentucky landscape. Paul Powell showed a wonderful collection of Kodachrome slides taken while he and his wife were visiting remote spots on the North American continent.

Finding of Japanese Beetles.

The meeting was resumed February 7 at 9 a. m. by President Gardiner, and Louis Hillenmeyer, Jr., was called on for a report on activities of the National Landscape Nurserymen's Association. He reviewed the accomplishments and proposed future goals of the association, pointing out that its activities are directed toward the benefit of those nurserymen who are doing landscape work.

Howard Tilson, state nursery inspector, reported the finding of seven Japanese beetles in Kentucky during July, 1949, which were captured by traps operated in connection with inspection work. They are the first of these pests found since the 1937-1938 trap findings at Louisville.

Two nurseries in Jefferson county were included in the trapped area and are now under state regulation. The area was foliage-sprayed with DDT in late July, and the nursery area together with all questionable area outside the nurseries was soil-treated with DDT during September under the supervision of inspectors from the bureau of entomology and plant quarantine. All B&B stock moved from either of the two nurseries this past fall or next spring has been or will be dipped in a solution which has proved effective in killing all stages of Japanese beetle. The Kentucky nurserymen have every reason to believe they will be successful in again eradicating the Japanese beetle in their state.

General Nursery Problems.

Because of the shortage of time, Dr. L. C. Chadwick was forced to cut his second speech to forty minutes. Instructing the group on nursery soil management, he said that soils should be in sod crops one-third to one-half of the time. In discussing weed killers, he said that sodium TCA has given best results on quack grass. This is not a selective herbicide. With eighty to 100 pounds of material per acre, kills of eighty to 100 per cent have been reported.

On the subject of rose storage, Dr. Chadwick said that temperatures of 32 to 35 degrees and humidity of eighty to eighty-five degrees seem to be most favorable. The canes should

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not be cut back shorter than ten inches when going into storage. Further cutting of canes should be done in the spring at the time of planting.

Other matters the nurserymen were informed about by Dr. Chadwick were that a burlap preservative based on copper naphthanate is giving good results; sand and peat moss or sand and sawdust seems to be the best heeling-in medium, and work on sprays for prestorage defoliation and on preventing fruit set on certain ornamentals is progressing and should be ready for reporting later.

Business Meeting.

Carl Ray, Carl Ray Co., St. Matthews, who was the association's former delegate to the A. A. N., reported on last summer's convention and on the plans for the seventy-fifth meeting to be held at Washington, D. C., next summer.

The business meeting included reports of committees and election of officers. A forward-looking step was taken in the vote to publish a bulletin, called the "K. N. A.," which will contain items of interest to Kentucky nurserymen in addition to want lists and surplus lists. President Gardiner will be the editor, and Herbert Bunton the publisher. The bulletin will be published about the first of each month, and all members who request a copy will be on the mailing list.

For next summer's meeting, J. W. Fike invited the association to enjoy an old-fashioned barbecue as guests of Fike Nurseries, Hopkinsville. It was decided to visit Kentucky lake and go from there to Hopkinsville.

Several committees were appointed by President Gardiner at the business meeting. On the trade practices, resolutions, constitution and bylaws and necrology committee are Senator Alvin Kidwell, chairman; Carl Ray, and Walter Hillenmeyer. The public relations committee is composed of Herbert Bunton, chairman; J. W. Fike, and Walter Hillenmeyer. To promote juniper grafting are Nick Verburg, chairman; Dr. T. C. Crume, and Tommy Martin.

Carl Ray was selected as chairman of the landscape nurserymen's committee and will be helped by Louis Hillenmeyer and Mitchell Leichhardt. Carl Ray also heads the Blue Star highway markers committee and will select his own helpers for this. The auditing committee was composed of the chairman, Arthur Reynolds, and Clinton Korfhage and Mrs. Paul Arterburn. On the nominating committee were J. W. Fike, chairman; A. G. Humphreys, and Charles Michler.

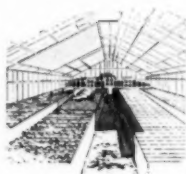
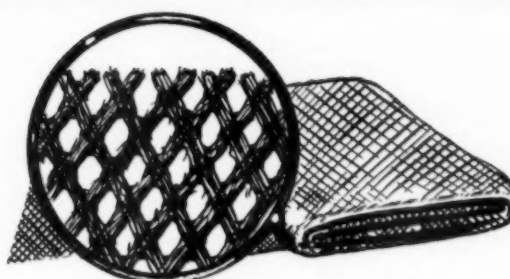
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KANSAS LANDSCAPE ARCHITECTS MEET.

[Concluded from page 10.]

of the junior members were highly in favor of such improvement, and Professor Quinlan added his endorsement for the hiring of additional instructors or graduate assistants. The reason given was that graduates in the field are not fully recognized as possessing sufficient training to carry on the trade of landscape architect. President Jameson agreed to appoint a committee to carry out the proposed investigation.

Prof. Ray Keen, of the department of horticulture, distributed copies of the Kansas forestry and nursery laws to members who had requested them at the last meeting.

In conclusion, Harold Crawford, Willis Nursery Co., Ottawa, invited the group to hold its summer meeting at that city. The meeting adjourned with plans to meet at Ottawa during June.

OPERATOR of the Buena Park Greenhouses, Buena Park, Calif., Bob Weidner on January 21 married Evelyn Peterson, daughter of Mr. and Mrs. Simon Perts Peterson, who own Peterson's Nursery, North Long Beach, Calif.

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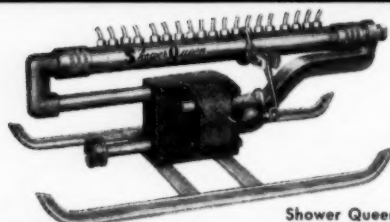
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AMERICAN NURSERYMAN

NEW ENGLAND SESSIONS.

[Continued from page 8.]

conduct of the educational program, which this year was offered solely with local talent, at a minimum cost to the association, though acknowledged by the audience as one of the most successful in the series.

Homer K. Dodge referred to his report on public relations presented at the Massachusetts meeting, on another page.

After I. L. Williams had read the report of the nominating committee, whose other members were C. A. Godin and J. J. Leghorn, the slate of officers, executive committee members and A. A. N. delegates and alternates named above was duly approved, and Richard M. Wyman, Jr., took the chair as the new president.

Louis Vanderbrook invited the association to hold its summer meeting at Manchester, Conn., where his firm and C. R. Burr & Co. would be hosts, as planned last summer, when the meeting was canceled because of fear of a polio epidemic at the time.

Flowers and best wishes were voted to be sent to Charles A. Godin, of the Adams Nursery, Inc., Westfield, Mass., who had appeared on the educational program despite severe pain from a hernia and was to enter a hospital the following day for an operation.

Instructive Addresses.

James I. E. Ilgenfritz, Monroe, Mich., president of the American Association of Nurserymen, a guest at the convention, spoke briefly on the growth of membership in the national organization, its current work on the problems of mounting transportation costs and the successful progress of the "Plant America" program in various states, particularly Connecticut, as noted on another page of this issue.

Two programmed talks were especially instructive. That by Luther M. Baumgartner, director of the biochemical laboratories of the B. F. Goodrich Co. at Yonkers, N. Y., on "Insure Survival of Your Transplants," chiefly concerned the use of Goodrite VL 600. This product not only aids the successful moving of larger trees in leaf by preventing wilting of foliage in full leaf, but is being used to increase survival of lining-out stock. Dipping, rather than spraying, is employed in the latter practice. Questions from the floor indicated some insecticidal value also. Dr. Baumgartner said if insecticides were combined with the product for spraying, tests should be made first to see if the two were compatible, to avoid useless work and the possibility



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of clogging spraying equipment to no purpose.

James S. Wells, manager, Koster Nursery Co., Bridgeton, N. J., talked on propagation practices, commenting on nursery slides, familiar to readers of the *American Nurseryman* from the illustrations in his series of articles on the propagation of rhododendrons during the past year. Frank and fluent in his remarks, Mr. Wells spent much additional time in responding to queries from the audience.

Trade Exhibits.

In the corridor outside the meeting room were thirteen trade exhibits, assembled under the supervision of Jack Shore's committee, staged by the following: Brownell Roses, Little Compton, R. I., colored slides of hardy Brownell hybrid roses; Premier Peat Moss Corp., New York, peat moss; J. Shore & Co., Chelsea, Mass., burlap and twine; Frost Insecticide Co., Arlington, Mass., tools and supplies; Wyman's Garden Center, Framingham, Mass., balled yews and azaleas; Auburn Cordage & Twine Co., Boston, ropes and twines; Lee Patten Seed Co., Jersey City, N. J., lawn grass seeds; Garfield Williamson, Inc., Jersey City, N. J., grass seeds, fertilizers and sundries; Rogers & Hubbard Co., Westwood, Mass., fertilizers and fungicides; Pinkham Press, Boston, printing; Walker-Gordon Laboratory, Plainboro, N. J., plant food; Conrad Fafard, Inc., Shippegan, N. B., Canada, peat moss; Walter Guille, Inc., Syosset, N. Y., bulb packages.

TENNESSEE SHORT COURSE.

[Continued from page 14.]

twenty-one hours devoted solely to ornamental horticulture. Plant propagation is the first course taught, for as Dr. Pickett said, it is no longer practical to teach plant propagation in combination with crop production courses because of the tremendous number of technical advances in this field during the past few years. General floriculture at the University of Tennessee is devoted to the study of annual and perennial herbaceous plants and the shrubs.

Dr. Pickett told about the plant materials three-quarter course of nine hours. The length of time devoted to this subject is considered necessary to cover the entire field of horticultural plant materials available in Tennessee, and the classes are designed to make the students familiar with the broad-leaved evergreens, deciduous trees and shrubs and narrow-leaved evergreens. A technical course in arboriculture to

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Less than 100
pounds take
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Size	Approx. Wt. per 200	Top Dia.	Bot. Dia.	Ht.	Price per 100	Price per 1000
No. 1	30 lbs.	6 ins.	5 ins.	6 ins.	\$4.00	\$37.50
No. 2	40 lbs.	7 ins.	5½ ins.	9 ins.	4.50	42.50
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500 or more take 1000 quan. price. Send 25c for one set of Samples.

Terms: 5% Cash
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prepare students for handling shade trees for private and city plantings has recently been added to the curriculum. The horticultural major at the university is also required to take three courses in design.

In nursery management, three courses are provided which include information on all production and marketing practices now used in the field. In addition to this basic work during the senior years in ornamental horticulture, twenty-seven hours of elective work include work in soils, basic design, freehand sketching, accounting, business law and psychology.


Dr. Pickett concluded his talk by telling the nurserymen that he thought the students would come to them with sound knowledge. He hoped that the businessmen would overlook the horticultural students' lack of experience, knowing that experience, like gray hair, comes with the years.

Follow-up Salesmanship.


"So You Planted a Job—Now What?" was the topic of the next speaker, F. C. Galle, assistant professor of horticulture, University of Tennessee. "Now that we again have to sell our landscape jobs," he told the nurserymen, "selling must be carried through to completion. The old adage still holds true that a satisfied customer is your best form of advertising and should be a steady customer. But are they steady customers? Do they come back for additional plants to complete or round out their landscaping?"

It is a students' general theory that ten per cent of the cost of a house should go into landscaping the area around the house. However, generally less than one per cent of the cost is initially spent on improving the home grounds. The minimum amount approved by home loan companies for landscaping is just a nucleus or beginning. Additional plantings must be made around the average house of this

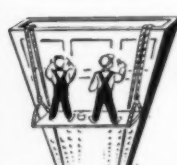
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type, if nurserymen are to live up to the idea of making the house a beautiful home by plantings.

Mr. Galle then pointed out how the nurseryman is apt to fall down on the job. Customers are not told the how and why to maintain a newly seeded lawn—that it will require special care, such as watering, fertilization, proper mowing and weed control. It is too late in midsummer of the first or second season to answer complaints by saying what should have been done.

He then asked if the nurserymen always told customers about the after-care of azaleas. The average homeowner will apply sulphur to the soil or spray with iron sulphate if told when and how it should be done. When they become successful azalea growers, they add additional plants to their yard, but they will be back only to complain if they have only a bunch of dead sticks after one growing season.

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Samples and prices sent
on request.

"Do our salesmen tell a customer that aucuba, for example, will not stand full sun, or do we just let them watch the leaves scorch during the summer?" the speaker asked his audience. "Do we tell the mail-order customer the proper depth and soil treatment for his roses, fruit trees and other plants? We need to follow through on the first planting, regard-

less of how small," the professor emphasized, "so that later we can complete the landscape picture by adding border plants, additional trees, roses and other perennial plants."

He told the group to give the customer information as to the ultimate size and shape of plants so he will not overplant an area. There are many disgruntled gardeners when they find that the little evergreen "gem" would have grown into a "green jewel" if it had not been crowded by other plants.

Stop occasionally and inspect your planting jobs, he said. Commend the homeowner on the good care he has given his plants and advise him if additional care is needed. Selling does not need to be mentioned, for future sales have been made just by such a visit. He told the nurserymen that many of them will probably again have to offer maintenance service rather than let their planting job fall to the care of the day laborer who walks the street carrying a spade and a hand pruner.

More advice was given by Mr. Galle on the use of timely news-letters and newspaper ads which keep your business' name before the public and at the same time pass on garden information. Christmas cards, using before-and-after pictures of owners' homes, will have personal interest. Attractive and informative catalogs are always interesting reading for the gardener on winter evenings.

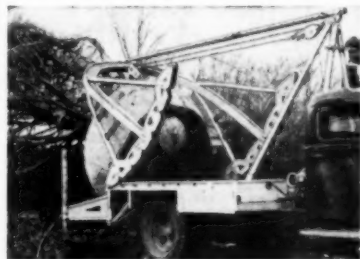
The wholesalers can beat the buyer to the punch by following up an order with a letter of inquiry on comments and conditions of plants delivered. The customer will say when the plants he received are poor, but he will feel better toward a firm if he thinks it is really interested in his comments and future business.

In closing, Mr. Galle said, "Let us educate the houseowner with instructive information to develop a beautiful landscaped home. It begins at our own homes and salesyards, in addition to having the slogan appear on our letterheads, on the sides of trucks and in trade magazines."

Lawn Grasses.

"Lawn Grass Problems" was discussed by Prof. J. K. Underwood, associate professor of agronomy and a botanist for the experiment station at the University of Tennessee. He discussed four problems—poor preparation of soil, failure to understand the fertilization and liming requirements of soils, failure to select a grass or grass mixture suitable for the particular location and simple neglect and mismanagement after the plantings have been established.

He said that the average lawn needs lime applied only once every ten to



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fifteen years and not every season, as is so often done. Fall seeding is to be preferred over spring seeding because the longer growing period allows the grass to become established before the drought and hot weather in the Tennessee area. An equal mixture of Kentucky bluegrass and Chewings fescue was recommended as a suitable lawn mixture for sun or shaded area. White clover can be added to this mixture when desired. Professor Underwood did not recommend the use of rye or redtop in grass mixtures because of the increased problem of mowing and inhibiting the permanent grass from becoming established. Rye grass, however, is used satisfactorily as a winter cover on Bermuda lawns. Zoysia matrella grass is hardy within this area and good to use. In closing, Professor Underwood informed the nurserymen that a lawn bulletin would be available from the university late in the spring.

Prof. G. M. Bentley, entomologist emeritus, introduced the new head of the department of entomology of Tennessee, J. C. Moser, who has worked with Mr. Bentley for a good number of years.

Banquet.

Howell Nurseries, Knoxville, sponsored the evening banquet at the Mountain View hotel, Gatlinburg, which was a chicken dinner that will be long remembered. A floor show was presented by Joe Kennedy, who pantomimed various popular songs.

The Rev. Henry Atkins, Knoxville, who was toastmaster for the evening, had a seemingly unlimited supply of jokes and stories.

Mr. Bryan, of Dickson, was the only member present of those who had attended all the meetings of the Tennessee State Nurserymen's Association since its organization in 1905. Other long-time members of the organization present were Bruce Howell, Sweetwater; Prof. J. H. Bayer, Murfreesboro; T. N. Nicholson, Decherd, and W. L. Johnson, Baxter.

Second Day's Program.

The second morning of the meetings started at the Andrew Johnson hotel in the main assembly room. Bert Thompson, representing the Bell & Howell Camera Co. and operator of the Snap Shop, Knoxville, gave an informative talk on sales with the right picture setup. Mr. Thompson had movie cameras, projectors and film cameras of all types on display and told of their use and value to the nursery business.

Curtis H. Porterfield, administrative assistant for the American Nurserymen's Association, told of the in-

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creased membership of the A. A. N. within the past year and of the problems confronting the office at Washington, D. C. He also told of the new program to plant America. The nurserymen within the state then resolved to go on record as starting the slogan, "Plant Tennessee to Plant America." This information will be given the governor and other important men within the state.

A new scholarship was presented to the University of Tennessee by the Federation of Garden Clubs and the Tennessee Nurserymen's Association. The scholarship will go to a university student who is interested in ornamental horticulture and who will be selected later by the faculty committee. Mrs. Howard Bonser, Knoxville, represented the garden club, and H. R. Potter, Nashville, represented the nurserymen. Dr. N. D. Peacock, vice-dean of the college of agriculture, accepted the scholarship and told of its importance to students at the university.

Selling Psychology.

The group then heard an address, "Are You a Good Salesman?", by Ben Cobb, instructor in psychology at the University of Tennessee. He warned against accepting the word of the so-called experts, who advocate a selling principle just because it is successful in a few jobs. Even though it proves unsatisfactory, the salesman will often continue butting his head on the same old wall and never look around for something new, said Mr. Cobb. "Solve your problems by collecting and considering all the facts as they apply to you," he told his audience. "Many good ideas are to be found in books; try them, but don't be stuck with them."

He also noted that in the selling field scientific research is lacking. A small informal group of teachers and graduate students has recently been formed at the university to study industrial psychology as a service to businesses in the Knoxville area. Mr. Cobb felt this would be of some help to nurserymen in their selling problems and offered to send them a brochure of the problems handled by the group.

Mr. Cobb concluded with the idea that selling was only a small phase of the much larger field of human relations. In spite of the value of good salesmanship, he emphasized that the majority of sales result from friendship and gave the nurserymen hints on how to develop the customer's faith in the worth of the nurseryman's service. Becoming well acquainted with the problems of the customer as the customer sees them is one way to obtain the public's faith. The nurseryman



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Size in ins.	Per 1000	Size in ins.	Per 1000
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2 x 2 x 2 1/2	4.10	3 x 3 x 3	4.90
2 x 2 x 3	4.40	3 x 3 x 4	5.20
2 1/4 x 2 1/4 x 2 1/2	4.30	4 x 4 x 4	5.20
2 1/4 x 2 1/2 x 2 1/2	4.45	4 x 4 x 4	6.00

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No. M-320	2 x 2 x 2 1/2	15 lbs.	15 lbs.	4.10
No. M-340	2 1/4 x 2 1/4 x 3	20 lbs.	20 lbs.	4.50
No. M-350	3 x 3 x 3	21 lbs.	21 lbs.	4.80
No. M-360	3 x 3 x 4	40 lbs.	40 lbs.	4.95
No. M-391	4 x 4 x 4	40 lbs.	40 lbs.	5.60

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M-393; holds six 3-inch Bands	3.90
M-394; holds six 4-inch Bands	4.80

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1 1/4 x 1 1/4 x 2 1/2	40 10 \$3.35
2 x 2 x 2 1/2	40 10 3.65
2 x 2 x 3	40 10 5.90
2 1/4 x 2 1/4 x 3	40 10 6.95
3 x 3 x 3	40 10 8.10
4 x 4 x 3	40 10 7.55
4 x 4 x 4	40 10 8.95

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No. 2 for 1 doz. 2-in. Bands

Tom Thumb Flats Per 1000		Combination 1000 Flats 12,000 Vita-Band 40 Per 1000 Sets		Combination 1000 Flats 12,000 Vita-Band 10 Per 1000 Sets	
Size	Size	Size	Size	Size	Size
No. 1	No. 2	No. 1	No. 2	No. 1	No. 2
\$35.00	\$39.85	\$68.15	\$97.70	\$71.05	\$79.80

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must also follow the old familiar virtues of honesty, politeness and good manners. "Do it not in terms of what the expert in any field tells you," he said, "but in terms of your own emotions and feelings—your own humanity."

One of the educational features of the short course was a plant identification quiz of unlabeled plant specimens arranged in the lecture room. Many of the varieties were rare, but are still found in Tennessee. Richard Jones, Jones Ornamental Nursery, Nashville, was the winner of the quiz and received the new book by Donald Wyman, "Shrubs and Vines for American Gardens," as a prize.

CATALOGS RECEIVED.

WHOLESALE PRICE LISTS.

Arp Nursery Co., Tyler, Tex.—Rosebushes and nut trees; illustrated; 2-page folder, 11 $\frac{3}{4}$ x16 $\frac{1}{4}$ inches.

Bagatelle Nursery, Huntington Station, L. I., N. Y.—Flowering shrubs and trees, deciduous trees, evergreens and rhododendrons; 24 pages, 4x9 inches.

Bryant's Nurseries, Princeton, Ill.—Fruit trees and small fruits, deciduous trees and shrubs, evergreens, roses and peonies; 24 pages, 6x9 inches.

Chase Nursery Co., Chase, Ala.—Ornamental and lining-out shrubs and evergreens, rosebushes and supplies; 8 pages, 7 $\frac{3}{4}$ x9 inches.

Evergreen Nursery Co., Sturgeon Bay, Wis.—Deciduous and evergreen lining-out stock, specimen evergreens and perennials; 8-page folder, 3 $\frac{1}{2}$ x8 $\frac{1}{2}$ inches.

Guldemond's, Newport, R. I.—Annual and perennial seeds and plants, lawn and vegetable seeds, bulbs and supplies; 60 pages and cover, 4x9 inches.

Jewell Nurseries, Inc., Lake City, Minn.—Fruit trees and small fruits, tree and ornamental seedlings, ornamental shrubs, evergreen and shrub lining-out stock, perennials and roses; 12 pages and cover, 4x8 $\frac{3}{4}$ inches.

Mount Arbor Nurseries, Shenandoah, Ia.—Fruit trees and small fruits, deciduous trees, ornamental shrubs, hedging and vines, evergreens, spring bulbs, roses, peonies and perennials; 72 pages and cover, 6x9 inches.

Ozarks Plant Farms, Inc., Springfield, Mo.—Rosebushes; 4-page folder, 4x9 $\frac{1}{4}$ inches.

Pallack Bros. Nurseries, Harmony, Pa.—Lining-out stock of shrubs, evergreens, azaleas and perennials, 8-page folder, 3 $\frac{1}{2}$ x8 $\frac{1}{4}$ inches.

Possum Hollow Nurseries, Philadelphia, Pa.—Lining-out evergreens and deciduous trees and shrubs, and azaleas; 2 pages, 6x13 $\frac{1}{2}$ inches.

Willis Nursery Co., Ottawa, Kan.—Ornamental and shade trees, fruit trees and small fruits, shrubs, roses, perennials, lining-out stock and hardwood cuttings; 24 pages and cover, 6x9 inches.

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Musser Forests, Inc., Indiana, Pa.—Evergreens, ornamental and shade trees, fruit trees and small fruits and flowering shrubs; illustrated, 24 pages, 8 $\frac{1}{2}$ x11 inches.

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